

19980126.qrp v00_n982.qrs.980126

Date: Mon, 26 Jan 1998 19:03:29 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 982

QRP-L Digest 982

Topics covered in this issue include:

- 1) [1908] 6V NE4040
by Steven Weber <kd1jv@moose.ncia.net>
- 2) [1909] CQWW 160 QRP
by bcutter@teal.csn.net (Bob Cutter)
- 3) [1910] FYBO 20M Kit
by "\"W. Kimura\""." <W.Kimura@valley.net>
- 4) [1911] Back on QRP-L ...
by joel malman <malman@world.std.com>
- 5) [1912] Elmering - Simulation's role
by Niel Skousen <nskousen@scientech.com>
- 6) [1913] Heathkit Green Paddles
by "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
- 7) [1914] Oh No! Touch-Lamps! HELP!
by "Gary M. - W2UX" <mail4gary@worldnet.att.net>
- 8) [1915] Re: Elmering - Simulation's role
by "Bob Edwards, W4ED" <w4ed@flash.net>
- 9) [1916] Re: Oh No! Touch-Lamps! HELP!
by nq2rp@juno.com (B/BAMS Club Station)
- 10) [1917] NorCal K8FF Paddle Hint & Kink
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 11) [1918] FYBO Winter QRP Field Day Countdown!
by Joe Gervais <vole@primenet.com>
- 12) [1919] Homebrew: Tuna Tin II Board making
by n2jgu@juno.com (Gary M Diana)
- 13) [1920] Re: Elmering - Simulation's role
by Niel Skousen <nskousen@scientech.com>
- 14) [1921] Re: Elmering - Simulation's role
by Sam <kc5tja@animeonline.ml.org>
- 15) [1922] RE:Oh No! Touch-Lamps! HELP!
by Niels Jensen Kristjansson <nkristja@cadvision.com>
- 16) [1923] Is it done yet??! The 40m1A Receiver...
by Sam <kc5tja@animeonline.ml.org>
- 17) [1924] Scott Rosenfelds Ten Tec group buy
by Scott Bauer <ke3nv@erols.com>
- 18) [1925] Re: Oh No! Touch-Lamps! HELP!
by Bruce Hopkins - KL7JAF <kl7jaf@polarnet.com>
- 19) [1926] Re: Elmering: Let's Start!

- by "Robert J. Gobrick" <rgobrick@worldnet.att.net>
- 20) [1927] Re: Oh No! Touch-Lamps! HELP!
by W7LS <w7ls@blarg.net>
- 21) [1928] Broke in the 1340 with DX!!
by Scott Bauer <ke3nv@erols.com>
- 22) [1929] Re: Elmers wanted...take charge yourself
by "Dan L. Evans" <dlevans@hsonline.net>
- 23) [1930] Re: BUILD this receiver...
by KB9RPD <KB9RPD@aol.com>
- 24) [1931] re: Elmering project
by k5zty@juno.com
- 25) [1932] Re: NorCal K8FF Paddle Hint & Kink
by k5zty@juno.com
- 26) [1933] RE:K8FF Paddle Hints & Kinks
by wsmith@cyberdrive.net (Wayne A. Smith)
- 27) [1934] Need help with a Sierra
by "jma" <jma@eps.inso.com>
- 28) [1935] QRP Rigs
by Chuck Carpenter <w5usj@webwide.net>
- 29) [1936] SG-2020 TODAY?
by Ed Tanton <n4xy@bellsouth.net>
- 30) [1937] NW80
by "Jeff M. Gold" <JGold@tntech.edu>
- 31) [1938] FYBO
by Paul Helbert <phelbert@rica.net>
- 32) [1939] CQ WW 160 CW contest
by William McFadden <wmcfadde@oucsace.cs.ohiou.edu>
- 33) [1940] FOX: NOGLM log
by "Buck, Preston D" <BuckPD@corning.com>
- 34) [1941] My first RIG
by "Juan A. Bertolin" <jbertolino@nexo.es>
- 35) [1942] pixie fun and solder
by Steve Miller <kg7pv@teleport.com>
- 36) [1943] Re: Oh No! Touch-Lamps! HELP!
by John Evans - N0HJ <jae@codenet.net>
- 37) [1944] SWLmer-X0
by ji3m@maxwell.com (James R. Duffey)
- 38) [1945] Oner VFO
by AlK0FRP@aol.com
- 39) [1946] Re: Elmering project
by "Ron Smith" <resmith@primenet.com>
- 40) [1947] Holy Cow, Batman! The Enclosures Are Gone!!
by doug hauff <slmachco@fix.net>
- 41) [1948] WOW! simple AF filter works!
by K5BDZ@aol.com
- 42) [1949] Re: Oh No! Touch-Lamps! HELP!
by "Michael A. Gipe" <mgipe@reliablemeters.com>
- 43) [1950] 80 m \just before super bowl

- by gregoire@endor.com
- 44) [1951] Re: CQ WW 160 CW contest
by "Dave Rowe" <elim@ime.net>
- 45) [1952] help getting started-revisited/Elmer
by eakwik@mail.hac.com
- 46) [1953] Re: FYBO
by Joe Gervais <vole@primenet.com>
- 47) [1954] new vfo
by dave_epps@juno.com
- 48) [1955] FS:QRP Tuner
by ckrelic@usaor.net
- 49) [1956] NW8020
by tom whalen <whalen@swcp.com>
- 50) [1957] Re: Oh No! Touch-Lamps! HELP!
by w4bws@juno.com (Donald E Sanders)
- 51) [1958] Virtual Elmer
by Andy Fox <foxes@theriver.com>
- 52) [1959] NorCal/K8FF Paddle Tuning
by doug hauff <slmachco@fix.net>
- 53) [1960] Custom Crystals
by FAITHD@dnr.state.wi.us (Don C. Faith III, AM/7, \ (608\) 267-3135)
- 54) [1961] Crystals for Pixie
by Bill Nicolson <n2wf@erols.com>
- 55) [1962] Elmer Thread
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 56) [1963] Re: Toko IF cans..ID
by Steven Weber <kd1jv@moose.ncia.net>
- 57) [1964] Re: Elmering project
by Laura Halliday <ve7ldh@direct.ca>
- 58) [1965] Re: Elmer Thread
by Michael Maiorana <mikemo@ibm.net>
- 59) [1966] G3YCC change of email info
by "Frank Lee" <frank@g3ycc.prestel.co.uk>
- 60) [1967] Re: Custom Crystals
by Ed Tanton <n4xy@bellsouth.net>
- 61) [1968] Need CIRCAD info again
by "Paulette Quick, WB9VHF" <plquick@facstaff.wisc.edu>
- 62) [1969] Re: Oh No! Touch-Lamps! HELP!
by Ed Loranger <we6w@qsl.net>
- 63) [1970] Re: Oh No! Touch-Lamps! HELP!
by Ed Loranger <we6w@qsl.net>
- 64) [1971] Re: Need CIRCAD info again
by Michael Maiorana <mikemo@ibm.net>
- 65) [1972] Need CIRCAD info again
by Bob Hightower <ki7mn@dancris.com>
- 66) [1973] Elmering and 40-40 stuff
by Bensondj@aol.com
- 67) [1974] Re: Elmer Thread

- by "Ron Smith" <resmith@primenet.com>
- 68) [1975] Enclosure shipping update/RAINBOW ENCLOSURE
by doug hauff <slmachco@fix.net>
- 69) [1976] Bazooka Ant. Built. (short reading)
by Ed Loranger <we6w@qsl.net>
- 70) [1977] Re: SG-2020 TODAY?
by Tim Ahrens <tahrens@inetport.com>
- 71) [1978] Re: Elmer Thread
by Michael Tracy <mtracy@arrl.org>
- 72) [1979] SG2020
by "C.D. Rakes" <cdrakes@ipa.net>
- 73) [1980] NorCal 40a arrives
by mike@krypton.nmr.Hawaii.Edu (Mike W. Burger)
- 74) [1981] Bazooka Ant. Built (Full Story)
by Ed Loranger <we6w@qsl.net>
- 75) [1982] Massive disappointment de AL7FS
by "Larsen, Jim" <JLarsen@alascom.att.com>
- 76) [1983] [Fwd: N7IR CQ 160 Meter SO/QRP]
by Gary Hembree <Gary.Hembree@ASU.edu>
- 77) [1984] Re: Massive disappointment de AL7FS
by Joe Gervais <vole@primenet.com>
- 78) [1985] CQWW 160 QRP
by cooper@gmpvt.com (Tom Cooper)
- 79) [1986] QRP TTF
by EBikales@aol.com
- 80) [1987] e-mail address
by Bob Hightower <ki7mn@dancris.com>
- 81) [1988] Re: e-mail address
by Ed Loranger <we6w@qsl.net>
- 82) [1989] Re: Custom Crystals
by Niel Skousen <nskousen@scientech.com>
- 83) [1990] Re: Oh No! Touch-Lamps! HELP!
by nilsbull@juno.com (Nils R Young)
- 84) [1991] SPRAT Reprints Received
by Richard Kendrick <wa7twi@primenet.com>
- 85) [1992] SPRAT Reprints on the way
by "Bill Kelsey - N8ET - Kanga US" <kanga@mail.bright.net>

Date: Sun, 25 Jan 1998 19:18:37
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@Lehigh.EDU
Subject: [1908] 6V NE4040
Message-ID: <3.0.3.16.19980125191837.22df17d6@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Okay, got my highly modified 4040 pretty much working well enough to warrent going onto rev 2.

I can just hear a 1 uv signal but gets a bit squerrly at between 2-10 uv's and then cleans up again above that. Looks like the LM358 was not a good choice for an op amp to drive headphones directly. Good new is Rx curent is only 10 ma, 12 with a good signal driving the headphones. (8 ohms, connected in series)

Tx power out is up to 670 mw, and draws about 180 ma.

Rx current will go up, maybe double on the next version. I have to add a VFO buffer as the frequency shifts 3 KHz when I direct the VFO into the BFO mixer and I think I'll add an LM386 audio amp. I'm also running the VFO at 11 Mhz and is kinda driftty, so I'll also add one of those huff and puff stabilizers, and not sure how much current that will add.

All in all, it looks like 4 "C" cells will run this baby for a while.

Fun?-- you bet :-)

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Sun, 25 Jan 1998 17:15:29 -0700 (MST)
From: bcutter@teal.csn.net (Bob Cutter)
To: qrp-1@Lehigh.EDU
Subject: [1909] CQWW 160 QRP
Message-ID: <199801260015.RAA08067@mailman.sni.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I was only on Saturday night/Sunday morning.

145 Q's...42 SPC for 16,245

I did work 5 JA's at 5 watts which is the most I have ever done in a contest. JA's are not too difficult for me from Western Colorado, I seem to have a pipeline. The JA window requires split operation which really helps for QRP. The only other DX was XE, VE and KH6.

For antennas I have a full size dipole up about 50 feet, an inverted L and a quarter wave sloper. They all work well at different times, the sloper did

the trick for JA. I also have an EWE and a 600 foot Beverage for listening however conditions were quiet so I often used the transmit antenna for receive.

QRP on 160 is not easy and the secret is antennas and staying up very late. If you only can put up one antenna go for the Inverted L.

72, Bob KI0G

Date: Sun, 25 Jan 1998 19:55:33 -0500
From: "\"W. Kimura\"." <W.Kimura@valley.net>
To: qrp-l@lehigh.edu
Subject: [1910] FYBO 20M Kit
Message-ID: <199801260055.TAA10442@norwich.valley.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Last time I posted the VFO was up and running. Had a short break in between (work family etc,) and realized that FYBO '98 was just around the corner. So I've been melting solder this weekend! Xmit mixer and the 14 Mhz band pass filter is done and tests OK. The receiver, BFO and audio stages are up and running. Wow loud audio! You can hear this rig's speaker above my 35 watt power supply's cooling fan! (The rest of my QRP rigs are headphone only rigs.) The transmit driver, low pass filter and T-R switch all got done today. Whew, all that's left is the PA and final assembly.

72, Kim Kimura N1MVU

Date: Sun, 25 Jan 1998 20:02:36 -0500
From: joel malman <malman@world.std.com>
To: qrp-l@Lehigh.EDU
Cc: malman@world.std.com
Subject: [1911] Back on QRP-L ...
Message-ID: <199801260102.AA02347@world.std.com>

Folks,

It's good to back on QRP-L. I have been 'off-line' for about a week due to my quick termination from bbn (part of GTE). I now use world.std.com as my ISP. I hope this message looks OK as I am using a mailsystem and editor that I have not used before. In any event, many thanks to the Chuck and Mike

for getting me back on QRP-L.

Of interest, this weekend, I did hear 8Q7AA (Maldives) on 17 meters today (Sunday) at about 1900z. There was a small pile-up. I called a few times... No dice. A few minutes later the band changed or he just went QRT.

Anyone else try to work the 160m contest? There was heavy activity here in New England. QRM was bad(!). I worked maybe 20 stations while at 4 watts and then gave up. It seems you need to be QRO, up here, to work a 160m contest.

Alert to: AB7TT, KI7MN, W2KJ, K0EVZ, WA6FXP AND N4UY
I will be in WOONSOCKET, RI on Jan 31 1600-2000z (11am-3pm EST) on 14.060+/-.
Special QRP DX-PEDITION QSLs have been printed. If anyone else wants to join in the QRP DXPEDITION fun: I will be calling "CQ RIDX de WA1QVM/1"

72,

/joel wa1qvm (malman@world.std.com)

Date: Sun, 25 Jan 1998 18:09:58 -0700
From: Niel Skousen <nskousen@scientechn.com>
To: qrp-l@Lehigh.EDU
Subject: [1912] Elmering - Simulation's role
Message-ID: <v03020900b0f18245f13a@[205.180.127.50]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Goodevening all,

I'm enjoying the 'Elmering' thread... what I'd have given to even have been able to read the thread as a teenager w/ a license and no Elmer !!

The comments about the role of simulation in the process, are in my opinion, vastly understated. the understanding of the circuit values and their impacts (especially parasitics, which can be modeled in a controlled fashion..), as well as the graphical presentation to help in the visualization of the significance of the mathematical concept is especially important for the non-engineer trying to get a real 'feel' for what's happening.

I've found the ARRL/Compact package to be a real significant value for the \$\$\$. I've used a number of packages on both the mac and pc platforms, and ARD does as well as any I've dealt with. (I'm Mac'ed with a pc coprocessor at home, and a pc at work..) I'm one of the few EE's who is NOT really

conversant in Spice :-(), but a Spice variant would probably work well too...

Any other's who might want to work together to provide standard simulation files, with 'learning variables', to keep pace with the upcoming Elmer activity please drop me an e.mail off the net ...

TNX Niel

nskousen@scientech.com
skousen@srv.net

Date: Mon, 26 Jan 1998 02:53:18 -0500
From: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
To: qrp-1@Lehigh.EDU
Subject: [1913] Heathkit Green Paddles
Message-ID: <3.0.16.19980126025314.240f0c7e@som-uky.campus.mci.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Someone inquired a few days ago about "Heath Green" paint. I've scattered a few pictures on my web page that show the paint scheme that I used on my K8FF/NorCal paddles. The paint number is there also. It was an exact match for *my* HW-8... but your mileage may vary.

...Rich

Rich Dailey, KA8OKH <ka8okh@som-uky.campus.mci.net>
The KA8OKH / KB4NPI Web - <http://www.qsl.net/ka8okh>

Date: Sun, 25 Jan 1998 22:07:48
From: "Gary M. - W2UX" <mail4gary@worldnet.att.net>
To: qrp-1@Lehigh.EDU
Subject: [1914] Oh No! Touch-Lamps! HELP!
Message-ID: <3.0.3.16.19980125220748.3547b44a@postoffice.worldnet.att.net>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Yep it happened to me. I was in the shack playing radio (as the YL calls it). All of a sudden a new noise comes across the radio. What the devil is making this new noise?? I tune around and find it all over the bands. Where is it coming from??? Then the YL comes in and asks me to look at these two new lamps in the bedroom to see if I like them. Well stick a stake through my heart.....not touch lamps. Yep there they are big as life and the YL just loves these lamps.

OK guys....I have seen this discussed before but never thought I would need the info. NOW I NEED IT ! Please help me. How do I quiet these things down??

Thanks for all the help in advance.

=====
72/73 de W2UX
Gary McCaughey
Lexington, SC
CW is the REAL THING!
Use it....or lose it.
QRP-ARCI QRP-L CQC
=====

Date: Sun, 25 Jan 1998 22:53:25 -0500
From: "Bob Edwards, W4ED" <w4ed@flash.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [1915] Re: Elmering - Simulation's role
Message-ID: <34CC08B4.85F97DF2@flash.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Niel Skousen wrote:

> The comments about the role of simlutation in the process, are in my
> opinion, vastly understated.

Agree. The insight gained by adjusting values, re-arranging components, and trying new schemes has made circuit design interesting (again) for me.

> ...EE's who is NOT really conversant in Spice...

The package I use, and others too, keep the Spice code hidden.
One can create circuitry in a GUI, edit it, simulate, do analysis,
graph results, do it all over again, without seeing a line of Spice.
Focus is on circuitry performance rather than Spice syntax.

--

Bob 72/73

<http://www.qsl.net/w4ed>

W4ED nr Atlanta @EM73wt

...."QRP", more from less....

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Date: Sun, 25 Jan 1998 22:46:09 EST

From: nq2rp@juno.com (B/BAMS Club Station)

To: mail4gary@worldnet.att.net, qrp-1@lehigh.edu

Subject: [1916] Re: Oh No! Touch-Lamps! HELP!

Message-ID: <19980125.224442.4495.0.nq2rp@juno.com>

Hi Gary. Keith here in the Great Bergen Swamps of WNY...

Let me slip on my "ARRL Tech Co-ordinator" hat out here in WNY and
see....

The issue is not here at my fingertips, but in "Technical
Correspondance", within the last 18 months, was a discussion on curing
the "Touch-Lamp" problem.

Basically, the touch lamps have a small TX in the 30 - 500 KHz range, and
touching the light base causes the TX to shift frequency. This Delta-F
is detected in the module, and activates the switching circuits.

The cure, a LOW-PASS FILTER (Boy! This sounds like TVI!!!), but this is
a LPF cut for about 450 KHz. You could take the normalized filters from
the Handbook and scale them accordingly, or run out one with one of
these nifty HAMCALC (or equal) packages, something I don't have running
here. The values were in the Tech Correspondance article, but the tame
mini-black hole that I stoer all of my books in will not give me this one
back. I guess it slipped past the Event Horizon this time, or
something...

With the bottomless resources here on the list, someone out there is
probably scanning it as I type (in anticipation of this post) and posting

it to their Home Page.

For a quick trial, you could wrap the line cord around a ferrite or 3, or
get a pet rabbit. They LOVE vinyl-covered copper, or at least my
brother's rabbits did.

(Are those raisins on the floor??)

72/73, Keith, WB2VUO at the keys at B/BAMS
NQ2RP - QRP-L # 1294,
Byron/Bergen Amateur Microwaves System Club Station
Listen for our 10 Mtr Milliwatting Beacon: 125 mW @ 28.287 MHz
"Our night light runs more power than our Rig!!!"

Date: Sun, 25 Jan 1998 19:59:25 -0800
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: qrp-l@Lehigh.EDU
Subject: [1917] NorCal K8FF Paddle Hint & Kink
Message-ID: <3.0.1.32.19980125195925.00ca1284@dpol.k12.ca.us>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I just received this message and want to share it with all of you. I have
not tried it, but it sounds like a good idea. Chuck Adams must be smiling!!

Date: Sun, 25 Jan 1998 14:30:13 -0800
From: Korndog <jkorn@palmetto.net>
To: ki6ds@telis.org
Subject: Paddle Kit Tip

OK, I've just finished my kit and it's great! Black textured latex
finish on base, polished brass, and native black walnut handles.
One tip to offer: Even though I adjusted the bearings as directed in the
instructions I still noticed some side-to-side play that made the action
feel a little sloppy. This is due to the clearance between the screw and
the inside of the bearing sleeve. I put a little hot glue on the threads
with a glue gun and threaded the bearing on quickly as the glue dried.
This took up the side-to-side slack and the action is now perfect. I
don't know how long this fix will hold up though. Time will tell.
Thanks for a GREAT kit.

--

Jim Kornacki, KS4DU
Jackson, SC jkorn@palmetto.net

Date: Sun, 25 Jan 1998 21:33:59 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-1@Lehigh.EDU
Subject: [1918] FYBO Winter QRP Field Day Countdown!
Message-ID: <199801260433.VAA18395@usr06.primenet.com>

Howdy Folks,

Just got back from taking the family sledding up near Flagstaff - a little FYBO action for the wife and kidlettes. :) Which made me realize....

Less than TWO weeks to FYBO! That's hardly any time at all to plan a winter field day. So to help make sure you've covered all the bases, here's my Big Picture FYBO Checklist. Have you:

- 1) Picked a site to operate from, and done some basic recon on the area?
- 2) Figured out which antenna(s) and rig(s) you'll need?
- 3) Found a thermometer to bring with you? Gotta know what temp it is if you're going to really have fun!
- 4) Checked your cold wx gear (if needed) to make sure you can handle the worst that Mother Nature can send your way?
- 5) Picked a person you will give your site and route to, and given them your time of expected return?
- 6) Packed your car with emergency supplies ("Space" blanket, food, water, etc) in case you get stranded overnight?

If you've got a handle on all that, it's probably time to dwell on the important details, like whether or not you want your hot chocolate packets to have those little bitty marshmallows in them. :-)

Hope your weekend was fun. Now get ready to FYBO!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"It's hard to be unhappy when your feet are warm."
- Dave Rose, Fellow Snowcamper

Date: Sun, 25 Jan 1998 23:41:24 -0500
From: n2jgu@juno.com (Gary M Diana)
To: qrp-1@Lehigh.EDU
Cc: af389@lafn.org, embres@frontiernet.net, n2jgu@juno.com
Subject: [1919] Homebrew: Tuna Tin II Board making
Message-ID: <19980125.234556.4830.3.n2jgu@juno.com>

Hello All -

Several people have commented back to me on the Tuna Tin Board images
at our website: <http://www.frontiernet.net/~embres>

How do I make my boards?

I've never had any luck with the sensitized board method, but I
have made a load of boards using the toner transfer system. Mainly,
I've used DynaArt paper. This uses toner transfer, and after ironing
the paper to the board, you soak the board in water and the paper
slides off, leaving the toner image on the board. I've had mixed
results with this paper, and have used plain paper and soaked the
paper off in a weak bleach solution. Again, mixed results, depending
ALOT on the copier/printer and the toner, believe it or not.

In places where the toner is too thin, or didn't stick, I touch
up with either clear nail polish or an ink pen.

One secret to my success is FLOATING the board in warmed etch.
This gets the copper to fall to the bottom of the glass dish, and
constantly exposes the board to the etchant. This idea was passed
to me by Jim WA2ZKD a few years ago. It is tricky to get the board
to float, but well worth learning. Alternatively, you can build an
etching tank (ala Bill KD7S), which keeps the etchant moving and
this speeds the process.

Once the board is etched, then drilled, I go to my wife's dresser and
"borrow" the nail polish remover... it dissolves the polish, as well
as the toner in short order.

Now I use a file to square up (or round up) the board. Next, polish the board with steel wool. I don't plate my boards, but I do put a thin coat of Krylon clear acrylic spray, which keeps the oxidation away.

I've also been experimenting with a new paper (not yet generally available) from Kodak, which I used to make several of the Tuna Boards. After some additional experimenting, I will write something up.

I have one question to anyone who has used the blue PNP paper: Do you find that you have to "touch up" the board before etching? You know, cover up those places where the toner is too light? I'd be interested in hearing about this.

73 to all and enjoy the tuna images!

- Gary N2JGU

n2jgu@juno.com

<http://www.frontiernet.net/~embres> <-- The Embedded Research Website

Date: Sun, 25 Jan 1998 22:05:22 -0700
From: Niel Skousen <nskousen@scientechnology.com>
To: w4ed@flash.net, qrp-1@Lehigh.EDU
Subject: [1920] Re: Elmering - Simulation's role
Message-ID: <v03020900b0f1c9c99874@[205.180.127.162]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Bob, which package ?? If simulation is to be incorporated into this activity a standard set of tools is going to be key..

>Niel Skousen wrote:

>

>> The comments about the role of simulation in the process, are in my
>> opinion, vastly understated.

>

>Agree. The insight gained by adjusting values, re-arranging
>components, and trying new schemes has made circuit design
>interesting (again) for me.

>

>> ...EE's who is NOT really conversant in Spice...

>

>The package I use, and others too, keep the Spice code hidden.
>One can create circuitry in a GUI, edit it, simulate, do analysis,
>graph results, do it all over again, without seeing a line of Spice.
>Focus is on circuitry performance rather than Spice syntax.

```

>
>--
>
>          Bob    72/73
>
>    http://www.qsl.net/w4ed
>    W4ED nr Atlanta @EM73wt
>...."QRP", more from less....
>~~~~~

```

```

      /|
     / |
    /  | \
   /| / E | \
  /_ | /___|__ \
 [ \--===== -/

```

```

-----

Date: Sun, 25 Jan 1998 22:05:26 -0800 (PST)
From: Sam <kc5tja@animeonline.ml.org>
To: "Bob Edwards, W4ED" <w4ed@flash.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1921] Re: Elmering - Simulation's role
Message-ID: <Pine.LNX.3.96.980125220407.13811C-100000@animeonline.ml.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

```

```

> The package I use, and others too, keep the Spice code hidden.
> One can create circuitry in a GUI, edit it, simulate, do analysis,
> graph results, do it all over again, without seeing a line of Spice.
> Focus is on circuitry performance rather than Spice syntax.

```

Is there a simulation package for Linux that actually COMPILES? I've tried almost every electronics simulator I could find on my linux CDs and on various FTP sites, and I still can't get a single one to compile. I'm using Linux 2.0.29, and GCC 2.7.2.1.

In the mean time, I will just keep plugging away at the breadboard... :)

```

=====

```

-| TEAM DOLPHIN |-
 Chief Architect and Project Founder
 (web page under construction)

PGP 5.0 Public Key Available Upon Request.

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```

Date: Sun, 25 Jan 1998 22:06:21 -0700
From: Niels Jensen Kristjansson <nkristja@cadvision.com>
To: qrp-l@Lehigh.EDU
Subject: [1922] RE:Oh No! Touch-Lamps! HELP!
Message-ID: <1.5.4.16.19980125220612.1ee7a358@cadvision.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Take them both out into the back yard and shoot them with a shotgun.

Just remember it is harder to get permission than forgiveness.

72 de Niels
VE6NJK/TF3NJ

>Yep it happened to me. I was in the shack playing radio (as the YL calls
>it). All of a sudden a new noise comes across the radio. What the devil
>is making this new noise?? I tune around and find it all over the bands.
>Where is it coming from??? Then the YL comes in and asks me to look at
>these two new lamps in the bedroom to see if I like them. Well stick a
>stake through my heart.....not touch lamps. Yep there they are big as
>life and the YL just loves these lamps.
>
>OK guys....I have seen this discussed before but never thought I would need
>the info. NOW I NEED IT ! Please help me. How do I quiet these things
>down??
>
>Thanks for all the help in advance.
>
>
>=====

>72/73 de W2UX
>Gary McCaughey
>Lexington, SC
>CW is the REAL THING!
>Use it....or lose it.
>QRP-ARCI QRP-L CQC
>=====

>
>
>

All skills are in vain if an Angel pisses on the flint of your musket.

Date: Sun, 25 Jan 1998 22:21:01 -0800 (PST)
From: Sam <kc5tja@animeonline.ml.org>
To: qrp-1@Lehigh.EDU
Subject: [1923] Is it done yet??! The 40m1A Receiver...
Message-ID: <Pine.LNX.3.96.980125221006.13811D-100000@animeonline.ml.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hello!

As most of you know, I've been trying to build a 40m receiver for a bit now. It took me two years to get a working VFO, but I think it took me only a week or so to get a working mixer.

The receiver that I built currently doesn't have an AF amplifier chain yet, so I'm using the Radio Shack Amplified Speaker device. It's sensitivity is 1mV, so it provides roughly 60dB of gain on its own, maximum (at least, that's what I'm assuming! :)).

Anyway, as I tune the VFO, I get literally TONS of carriers, and for the first time ever, little to no 60Hz hum!! I am taking this to be a very good sign, and that I'm on the right track. I just can't hear any of the audio that goes with the carriers for most carriers. There were, however, about four stations that I could hear people talking, though it was too low and too muffled for me to hear exactly what they were saying. One of them even had music. I checked the local AM and FM broadcast bands, and none of them carried the same programming as the station received. That adds further proof that my circuit is (finally!) working. Sounds like I'll need another 60dB of gain though...

What I was wondering was if someone on this list could build the circuit in their spare time, and let me know I'm not off my rocker and hearing things.

Before I forget, here's the URLs you'll need:

GIF format:

<http://www3.axisinternet.com/~kc5tja/ham/40m1avfo.gif>

NewDraw/GeoDraw (NewDeal Office and/or other GEOS-compatible implementations):

<http://www3.axisinternet.com/~kc5tja/ham/40m1.000>

Please let me know what you think. Thank you for your input!

=====

-| TEAM DOLPHIN |-
Chief Architect and Project Founder
(web page under construction)

PGP 5.0 Public Key Available Upon Request.

Date: Mon, 26 Jan 1998 00:18:27 -0500 (EST)
From: Scott Bauer <ke3nv@erols.com>
To: qrp-1@Lehigh.EDU
Subject: [1924] Scott Rosenfelds Ten Tec group buy
Message-ID: <199801260518.AAA21446@smtp2.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello,

Just a little input on this group buy that Scott has worked up for us. If you are not familiar with the very large selection that Ten Tec has to offer, just visit their site at www.tentec.com

Why am I posting about Scotts group buy?? Well, I just finished building the 1340 QRP xcvr today and I am all grins ;-)) It came to life on the first try. Of course I expected it to as the manual is foolproof. This is a "spiffy" rig!! No drift, no problems, just plug and play. It is a bargain at 95.00 but with the special offer, you can get one of your very own for 85.00

I wouldnt put this rig in the same class as the S&S gear but its pretty darn close.

I managed to save a few bucks on Scott's LDG tuner group buy and plan to take advantage of this deal too!! There are only a few days left so go for it!! Nows your chance to save almost 20 bucks on the new 1254 receiver everyones gawkin about. Well wacha waitin for? heh? well... heh??

usual disclaimers, just very satisfied with my new toy.

72, Scott W3CV

72&73 de Scott Bauer W3CV, Odenton, MD. grid FM19. Formerly KE3NV

Founder and trustee of W3DV, Woodwardville ARC, "the WARC"
A local club for the QRP enthusiast

visit my web page at <http://www.erols.com/ke3nv/>

G-QRP 8773	QRP-L 728
NORCAL 1094	DL-QRP-AG *GM*
CQC 352	QRP ARCI-8804
scQRPion 38	AR-QRP 27

WARC QRP Club
CW OPERATORS QRP CLUB 484, FISTS, ARRL

Date: Sun, 25 Jan 1998 20:54:07 -0900 (AST)
From: Bruce Hopkins - KL7JAF <kl7jaf@polarnet.com>
To: mail4gary@worldnet.att.net
Cc: qrp-l@Lehigh.EDU
Subject: [1925] Re: Oh No! Touch-Lamps! HELP!
Message-ID: <v03007800b0f1511840ac@[204.119.15.185]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gary...

The shotgun approach while perhaps effective will not ingratiate you with either your wife or your neighbors...

It may be tempting to take them to the local dumpster site, however, murphy dictates that one of your close neighbors will retrieve them from said dumpster !!! You will now not only have the noise, your neighbors will file a RFI complaint with the authorities when the lamps start flashing on and off at all odd hours of the day and night in synch with your transmissions...

Try to get your wife to allow you to replace the sockets with standard three ways... When she does not fall for the added convenience of multiple luminance levels, explain to her the fire hazards (act convincing) surrounding touch sensor lamps...

If all else fails, find the URL for Timewave and in true ham fashion turn this minor setback into your gain... A new 599+ DSP as payment for allowing them in the house seems only fair...

On second thought, I think Neils is right... Use the shotgun approach...

Take care and have fun...

72 / 73 / oo's - Bruce - KL7JAF

Web Page: <http://www2.polar.net/~bhopskins>

"Alaska QRP Club" - Web Page: <http://www2.polar.net/~bhopskins/akqrp>

Date: Sun, 25 Jan 1998 23:56:31 -0600
From: "Robert J. Gobrick" <rgobrick@worldnet.att.net>
To: qrp-1@Lehigh.EDU, adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: [1926] Re: Elmering: Let's Start!
Message-ID: <3.0.32.19980125234521.0074ed18@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Chuck and QRP-L gang,

I have to agree with you that Dave Benson's NE 4040/SWL40 is one of my favorite "starter" rigs and actually one of the classic rigs that I have chosen for my "Americana" series of enclosures (see Steve Higdeg QRP-L webpage for photos). I have done wonders with the 40 meter and 30 meter versions and that was with an MFJ loop on an apartment balcony when I was in Newfoundland.

Now Chuck - you put a "teaser" in item 7 of your post. You say "On 30M the receiver is starting to lose sensitivity as expected and this can be discussed in elmering sessions."

I have got to hear about this. Are you saying that the electronics are getting "old" in my NE 3040? That statement intrigues me. Can this be related to life in general?? ;^)

Can you share some more since you did say this would make a great elmering session - hi.

Cheers 73/72 Bob N0EB

Date: Sun, 25 Jan 1998 17:49:26 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: PGSPersEng@aol.com
Cc: qrp-1@Lehigh.EDU

Re: Elmering: Let's Start!
Message-ID: <199801251749.RAA16684@chuck.dallas.sgi.com>

Paul et.al.,

A good idea.

Before I start on this thread just a note to other designers and kit manufacturers. I own just about every rig ever kitted and in many cases more than one, so I am trying to be impartial here, but it is difficult with the price range available, so don't be offended by the choice here. It is just a starting point and I figure if we get more builders then more money comes into play later on. The price of education is always a daily issue in the real world.

But before everyone starts out on this project of elmering, may I throw one more rig into the fire, so to speak?

How about the NE4040? Here are my reasons and mine alone:

....
7. It can and has been built and run on 80M, 40M, and 30M. I have several of these rigs running. On 30M the receiver is starting to lose sensitivity as expected and this can be discussed in elmering sessions. I wouldn't even considering moving one to 20M. But it leaves open the discussion and experimentation on how to make it better.
....

Chuck Adams K5FO CP-60
<http://reality.sgi.com/adams> adams@sgi.com

--Bob Gobrick - N0EB & V01DRB (ex WA6ERB, VE2DRB) Stillwater, MN
--Internet: rgob@tengizchevroil.com and rgobrick@worldnet.att.net

Date: Sun, 25 Jan 1998 22:16:32 -0800
From: W7LS <w7ls@blarg.net>
To: mail4gary@worldnet.att.net
Cc: qrp-1@Lehigh.EDU
Subject: [1927] Re: Oh No! Touch-Lamps! HELP!
Message-ID: <34CC2A40.103@blarg.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Easy, solution. Get one of those high voltage self-defense shocker-things and zap the lamps. "Gee, honey. I don't know why they won't work, but I can fix them! I'll just get a little switch to put in the cord, here...."
There is no other way. Trust me on this.

: -0 de Jim, W7LS

Gary M. - W2UX wrote:

>
> Yep it happened to me. I was in the shack playing radio (as the YL calls
> it). All of a sudden a new noise comes across the radio. What the devil
> is making this new noise?? I tune around and find it all over the bands.
> Where is it coming from??? Then the YL comes in and asks me to look at
> these two new lamps in the bedroom to see if I like them. Well stick a
> stake through my heart.....not touch lamps. Yep there they are big as
> life and the YL just loves these lamps.
>
> OK guys....I have seen this discussed before but never thought I would need
> the info. NOW I NEED IT ! Please help me. How do I quiet these things
> down??
>
> Thanks for all the help in advance.
>
> =====
> 72/73 de W2UX
> Gary McCaughey
> Lexington, SC
> CW is the REAL THING!
> Use it....or lose it.
> QRP-ARCI QRP-L CQC
> =====

Date: Mon, 26 Jan 1998 02:35:15 -0500 (EST)
From: Scott Bauer <ke3nv@erols.com>
To: qrp-l@Lehigh.EDU
Subject: [1928] Broke in the 1340 with DX!!
Message-ID: <199801260735.CAA03600@smtp3.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Well,

Tonight I finished up the 1340 from Ten Tec. Put it in the nice enclosure, hooked up my Codeboy keyer and an old battery. Tuned the band a little and found the "P" beacon which told me the QRP freq is very close. I hear TI2RDP calling CQ right on top of the beacon. He was weaker than the beacon but I gave the new rig its first try. BANG!!! He heard me!! W3CV de TI2RDP tn timer for the QS0. What a way to break in a new rig!! I know this one will be a real winner. What a great feeling!! Every time a new rig comes to life I go through the same routine. But isn't this what it's all about?? What a great hobby!! Keep that solder flowing!!

72, Scott W3CV

Date: Mon, 26 Jan 1998 04:52:04 -0500
From: "Dan L. Evans" <dlevans@hsonline.net>
To: QRP-l@Lehigh.EDU
Subject: [1929] Re: Elmers wanted...take charge yourself
Message-ID: <3.0.1.16.19980126045204.38678b64@mail.hsonline.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>OK, I'm done. Sorry for dragging this thread on for
>so long.

>Cheers de AB7TT,

Can't speak for everyone else, but I've enjoyed this thread more than any other in the past several months...Keep 'em coming.....

Dan

Dan L. Evans [N9RLA]
72/73 from...EM78
QRP MOBILE CONTESTOR!!!
CQ_DE_dlevans@hsonline.net

Remove the cq_de_ to email me, I hate SPAM!

Date: Mon, 26 Jan 1998 07:17:46 EST
From: KB9RPD <KB9RPD@aol.com>
To: qrp-1@Lehigh.EDU
Subject: [1930] Re: BUILD this receiver...
Message-ID: <2733b782.34cc7eec@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hmmm. Well, being a novice at this, I gave this a shot. I didn't have too much success, but it did work.

Why doesn't the diode direction matter? Well, if the diode is acting as a receiver of sorts, why would it matter? I would make an assumption that the antenna orientation would matter...moving any receiver really doesn't matter...the antenna does.

Why does adding earth improve reception? I've always wondered about the ground connection. It is as mysterious as electricity. Years ago I read about a "ground antenna" when I was an aircraft refueler. I was required to transmit on airport frequencies in order to get around on the airfield. So, I was interested in radio. The idea was to stick an 8' or longer copper clad grounding rod into the ground, near a body of water...pond, lake, etc. I was lucky enough to find a 10' rod and sunk it into the ground so only about 4" stuck out. My problem was the distance to the pond to the house I was living in at the time. Since the garage was about 40 feet away, I stuck my FM radio there, ran a wire from the end of the antenna to the grounding rod. Voila! Much better reception. When I took physics in high school years ago, I learned about ground absorbtion and radiant/reflective heat (that was a long time ago, forgive me if I misuse some terms here). If the physical world's laws are constant, then it would be safe to say that RF waves are also absorbed into the ground as well as being reflected. Placing a grounding rod into the ground can produce some results for reception.

Why doesn't a silicon diode work as well? Well, my guess is the physical properties of the diode itself. All things have a resonance level...everything will vibrate at a certain frequency. My guess is that the ger. diode will allow the inner element to act in a more satisfactory manner than one of more denser properties. (Ok, this is a stab in the dark, I admit).

Why do high-Z phones work better? Well, this may be why my experiment didn't work. I used a freebie ear plug phones with a diaphram. Impedence is my guess.

Why is this an AM radio, and not SSB or CW? Well, that's a good question as well. My guess is two fold. The AM radio broadcast is at the correct frequency for reception by the diode...and AM radio broadcast has a lot more power than most SSB and CW in my area.

What have I answered correctly, incorrectly, or am I off the track all-together?

By the way, I enjoyed your email Glenn. Love hearing that type of stuff.

73, Ted - KB9RPD

Date: Mon, 26 Jan 1998 13:37:50 +0000
From: k5zty@juno.com
To: qrp-1@Lehigh.EDU
Subject: [1931] re: Elmering project
Message-ID: <19980126.133753.3230.1.k5zty@juno.com>

Does anyone remember the N100Q RX elmering project from 1996? A great Email tutorial on designing a receiver. Infinite detail . Went on for months. Did any designs come out of that?? There is no magic pill that will make an instant designer out of you. You still have to do the boring old basic stuff. MATH. I doubt that anyone can design a course on the email that will replace in a couple of months what usually takes years of course work to learn, but I'll be watching and participating too.

Dream on,
Bill, K5ZTY

You don't need to buy Internet access to use free Internet e-mail.
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Or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 26 Jan 1998 13:26:18 +0000
From: k5zty@juno.com
To: ki6ds@dpol.k12.ca.us
Cc: qrp-1@Lehigh.EDU
Subject: [1932] Re: NorCal K8FF Paddle Hint & Kink
Message-ID: <19980126.133753.3230.0.k5zty@juno.com>

Just be careful that you don't insulate that bearing and screw from the base or the key won't work.

Bill, K5ZTY
Houston, TX
k5zty@juno.com

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Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 26 Jan 1998 08:13:23 -0500
From: wsmith@cyberdrive.net (Wayne A. Smith)
To: qrp-l@Lehigh.EDU
Subject: [1933] RE:K8FF Paddle Hints & Kinks
Message-ID: <199801261313.IAA14411@nemesis.cyberdrive.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Gang, If the pivots are adjusted and tightened correctly, the hole in the bearing makes no difference. Take care when painting that paint doesn't insulate the threads as this could compromise the ground return of the shafts.
Best 72 de K8FF

Date: Mon, 26 Jan 1998 08:23:38 -0500
From: "jma" <jma@eps.inso.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [1934] Need help with a Sierra
Message-ID: <199801261324.IAA03546@eps-inc.eps.inso.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I am about to send my new Sierra back to QRP Bob to see if he could bring it to life. I've spent many hours trouble shooting and trying debug, but I still have receive problems. I've resisted sending it back to Wilderness, because I won't learn anything by having them fix it. However I've run out

of experience and test equipment. Is there some one in the RI, Ma or CT area that would be willing to spend a couple of hours with me debugging this ?

Thanks in Advance

Jim Apple (WB1DOG) -- Pascoag RI

Date: Mon, 26 Jan 1998 07:55:37 -0600
From: Chuck Carpenter <w5usj@webwide.net>
To: qrp-l@Lehigh.EDU
Subject: [1935] QRP Rigs
Message-ID: <3.0.1.32.19980126075537.006a59d0@mail.webwide.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

All,

I'm looking for QRP rigs that are already assembled and tested; bad eyes, and don't want to mess up a kit. I'm not finding good reference material in the magazines I get.

I'd prefer a multi-band rig with adjustable power levels. But... :

- What's available?
- Which ones are most popular?

72/73
Chuck, W5USJ
Rains County (pop 6900), TX - EM22cv
ARCI # 5422, QRP-L # 1306, FISTS # 3984

Date: Mon, 26 Jan 1998 09:03:12 -0500
From: Ed Tanton <n4xy@bellsouth.net>
To: QRP-L Reflector <qrp-l@Lehigh.EDU>
Subject: [1936] SG-2020 TODAY?

Well folks... it has arrived: the scheduled shipping date for the new '2020. I guess we will find out shortly what "the morrow will bring."

73

"Think you can, think you can't: either way you're right!" Henry Ford

72
Jeff, AC4HF
--
Jeff M. Gold, Manager

Academic Computing Support
Tennessee Technological University
(615)372-3979

Date: Mon, 26 Jan 1998 09:17:33 -0500
From: Paul Helbert <phelbert@rica.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1938] FYBO
Message-ID: <34CC9AFD.97956C6@rica.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Looks as if my house cleaning has gotten the best of me. Would someone please send me the URL for info on the FYBO Winter Field Day? I'd like to get it into our club's newsletter.

TU,

Wv3j, Paul

Date: Mon, 26 Jan 1998 09:22:49 -0500 (EST)
From: William McFadden <wmcfadde@oucsace.cs.ohiou.edu>
To: qrp-1@Lehigh.EDU (qrp-1)
Subject: [1939] CQ WW 160 CW contest
Message-ID: <199801261422.JAA04317@oucsace.cs.ohiou.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Hello all.

Inspired by NS80, I spent two hours (one hour Friday night and one hour Saturday night) working the CQ WW 160 meter contest. It was a hoot!

I used my ICOM IC-735 throttled back to 5 watts and a recently-installed inverted-l antenna.

Friday was the better of the two nights. In the single hour, I worked 28 stations. Most of these were worked on the first call. It's apparent that QRP does work on 160m.

Saturday night was a bit rougher, and I managed only 15 QSOs in the hour. Part of the problem was that I couldn't call those I'd worked Friday. (Saturday morning at about 4:30am local time, I heard Hawaii, but couldn't bust the pileup.)

I haven't figured a score, and may not even do so. However, I had a lot of fun and may very well try the SSB contest in February.

72,

Eric

--

W. Eric McFadden WD8RIF Athens OH
wd8rif@qsl.net
<http://www.qsl.net/wd8rif>

Date: Mon, 26 Jan 1998 09:31:04 -0500
From: "Buck, Preston D" <BuckPD@corning.com>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [1940] FOX: N0GLM log
Message-ID: <6B137F61081DD0118DF600805FEAC5C5C8EC36@SILVER.CORNING.COM>
Content-Return: allowed
Mime-Version: 1.0
Content-Type: text/plain

Greetings All,

Chaos is reigning here so I will be brief.

Lots of noise on the band - minimum S5. Only worked a few stations.

his mine
K0EVZ 449 559 Doc MN
KQ5ZQX 559 559 John ? Static got me and his call isn't in
the database?
NI0A 559 559 John MN

Also heard, KB0KBT, KC0BJ, K0NY but the static overwhelmed me totally and I couldn't complete the QSO.

73

Preston

Date: Mon, 26 Jan 1998 09:16:00 +0200
From: "Juan A. Bertolin" <jbertolino@nexo.es>
To: "QRP - LIST ADDRESS" <qrp-l@Lehigh.EDU>
Subject: [1941] My first RIG
Message-ID: <199801261535.QAA08695@smtp.bankinter.es>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Dear QRP wizards,

This mail is only to share with all of you my happiness after y first QRP contact with my first QRP-kit built by myself.

I built a HOWES rig, TX2000 and DXR20 for working in 20, 40 and 80 meterswith 5W. The first goal was to work in 40 meters and after a long term (my job does not allow me to dedicate more than a couple of hours a week to make radio projects). With the great and worth help of Dave, G4KQH, I was able to finish my first project.

Yesterday I contacted with UA6 (close to Tbisili) in 40 meters with my V inverted and 5W. I received 559!!.. It was amazing. The working of DXR20 is very good compared with my FT901DM (we have to keep in mind that it is a direct conversion).

I have learned a great deal of tips during my project from this mailing list, only reading the experiencies of all of you. By this reason, I have to say you THANKS!

I hope I will be able to contact with some of you.

My next project a magnetic loop for 20 to 80 meters.

I have found in the QRP world a new and exciting aspect of the radio. Much with less.

Best Regards.

Juan

 ? \ / ? ?
 ? ? \\ ~ ~ // ?
 ? (. \ -0-0-/.) ? ?
-----o00o-(_)-o00o-----

EA5XQ, QRA:Juan, QTH:Almazora, LOC:IM99WW
FT901DM, MFJ1796,V inv. 40,80m.
HOWES (80,40,20) TX2000-DXR20
KDK 2mFM, MFJ1764

- SETEC ASTRONOMY -
- 'Only one key is enough to open all the doors'-

When I picture a perfect reader, I always picture a
monster of courage and curiosity, also something
supple, cunning, cautious, a born adventurer and
discoverer...
-- Friedreich Nietzsche--

Date: Mon, 26 Jan 1998 07:39:16 -0800
From: Steve Miller <kg7pv@teleport.com>
To: qrp-l@Lehigh.EDU
Subject: [1942] pixie fun and solder
Message-ID: <3.0.5.32.19980126073916.007af660@mail.teleport.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I had the urge to melt solder this weekend so dug around the shack for some
project. Found a pixie kit that was missing the xtal (used for something
else).

Been wanting to do a WWV receiver and had a 10mhz xtal in the junk box. I
built the pixie as designed for 40 meters and used the 10mhz xtal, a trim
cap and an inductor left over from my two 38S's for a vxo. Tuned right up
to WWV but audio was low.

Time for some research. The ARRL filter chart only goes up to 9 mhz for
low pass filters. So tried a couple of output circuits (a Pi and T) they
all worked great on the dipole but wanted to use a chunk of wire so the
simplest was an L network using a 90pf trim cap to ground and a 4.7uh
inductor (also left from the 38S) which my calcs showed was resonant at
10mhz. Peaks nicely using a bunch of wire hung around the shack. Too loud
on my dipole. Packed it all in an altoids box. (Had to get the books out
for the formula to figure resonance then got to use that scientific
calculator I just had to have!)

Now I have to order anothe pixie kit for the 80 meter version I wanted to
build. 73

Steve Miller kg7pv @ teleport.com Portland, OR
(CN-85) Norcal #308 QRP-L #109 ARCI # 9230

Date: Mon, 26 Jan 1998 09:04:22 -0700
From: John Evans - N0HJ <jaevans@codenet.net>
To: qrp-1@Lehigh.EDU
Subject: [1943] Re: Oh No! Touch-Lamps! HELP!
Message-ID: <34CCB406.A6B9A87A@codenet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Niels Jensen Kristjansson wrote:

>
> Take them both out into the back yard and shoot them with a shotgun.
>
> Just remember it is harder to get permission than forgiveness.

How do you get forgiveness after you have shot her and the lamps??

john - n0hj

John A. Evans	Chief Systems Administrator
Office: (719) 528-1800 x164	Titan Software Systems
Fax: (719) 528-1888	1115 Elkton Drive, Suite 200
email: jaevans@cos.cst.titan.com	Colorado Springs, CO 80907-3535

Norcal #262 QRP-L #219 QRP-ARCI #8303 NE-QRP #213 CQC #045
CQrp #15 NJ-QRP #50 AK-QRP #52 NW-QRP #454 FISTS #3184
Personal Web Page: <http://www.geocities.com/capecanaveral/9773/>

Date: Mon, 26 Jan 1998 09:11:35 -0700
From: ji3m@maxwell.com (James R. Duffey)
To: adams@chuck.dallas.sgi.com (Chuck Adams)

Cc: qrp-1@Lehigh.EDU
Subject: [1944] SWLmer-X0
Message-ID: <v02130503b0f25a113691@[192.31.66.158]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Chuck-That was a nice post on the choice of rigs for elmering. I second your choice of the Small Wonder Labs rigs being excellent value, both economically and technically. You may recall that my crude analysis last summer presented at Ft. Tuthill showed that the NE4040/SWL-40 had about as good performance as one can wring out of an NE602 based front end. I think that Dave's method of controlling the overall receiver gain with a pot at the front end is a simple and elegant solution to the strong signal handling problems that 602s can have.

By the way, I prefer 30 M to 40 M for this effort, but I guess that would preclude the novices, something we want to avoid at all costs. I like 30 M, it is an excellent QRP band, but it is underutilized, and a project like this would increase activity.

I think the circuit line up for the SWLX0 is perfect for understanding how a rig works. There doesn't appear to be much there that is not needed, but all the "blocks" in a classical receiver block diagram are there.

My comments on some of your comments;

"The price of education is always a daily issue in the real world."

But the price of education is cheap compared to the price of ignorance.

I am an expert in these matters as I have an over abundance of both.:^)
Also my daughter, a senior in high school is applying to expensive colleges. In her case it will be worth the investment.

"I wouldn't even considering moving one to 20M."

Actually the performance would probably be ok, but nothing to brag about though. I think one of the authors in the "QRP Power" article moved one to 20. It is not the 602 that limits performance, it is overall gain, and the addition of an IF amplifier helps immensely in this respect.

"But for my money, a technical discussion and an elmering thread is worth a lot of bandwidth. We all learn something."

Amen on this. There is nothing like trying to teach somebody something to make you learn the subject well yourself.

"Of course, you all realize that come next year the 7.040MHz region will

be even more crowded with the 'little people'. :-)"

We should have such problems. And when they occur we will convince everybody to build a rig for 30 M right?

Keep up the good work. See you in Ft. Tuthill?? I have told Bob I would give another talk this year.- Duffey KK6MC/5

James R. Duffey (505) 764-3143
Principal Scientist (505) 843-7995 (FAX)
Maxwell Technologies Inc/Albuquerque Division
Suite 300
2501 Yale Blvd SE
Albuquerque, NM 87106

Date: Mon, 26 Jan 1998 11:29:23 EST
From: ALK0FRP@aol.com
To: QRP-L@Lehigh.EDU
Subject: [1945] Oner VFO
Message-ID: <3b3ba9b3.34ccb9e5@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Built the Oner and it works great . Can't pull the crystal enough but .25 kHz .

need 4-5 KhZ pull a Stable VFO

Anyone have the diagram of the Oner VFO from Sprat #53.

Email the best, do not have a toll free fax # at work.

Fax 303-858-4601

wrkmy toll free is or 1 800 211-8424 ext 4748

Al K0FRP

Date: Mon, 26 Jan 1998 09:37:05 -0700
From: "Ron Smith" <resmith@primenet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [1946] Re: Elmering project
Message-ID: <00fd01bd2a79\$43d53ea0\$5822a5ce@primenet.com.primenet.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Bill,

>There is no magic pill that will make an instant designer out of you.

I don't think the original thread was looking for any "instant designer" anything, just someone to teach us the hows and what fors so we can make sense of this voodoo stuff.

>You still have to do the boring old basic stuff. MATH.

Boring to who? The original thread never once mentioned "teach me without the math." Personally, I like to settle in with a good Calculus book because I consider Westerns a waste of time.

>I doubt that anyone can design a course on the email that
> will replace in a couple of months what usually takes years
>of course work to learn, but I'll be watching and participating too.

You are absolutely right - but we aren't asking to be EE's, most of us want the 101 and 102 level knowledge. Remember them? They are the ones that first started those "years of course work." Every educational institution has them for virtually every class - including Electronics.

Think of this Bill... An Elmer should be one who teaches, assists, molds, and guides. If we knew the stuff already, we would have no need for an Elmer. Heck, had I had the patience I would have been a Doctor!

Have a super day Bill es 72

Ron Smith

Amateur Radio Callsign: KD7VD
Boise, Idaho
E-mail: resmith@primenet.com
QRP-L #1291...ARCI #9580

Date: Mon, 26 Jan 1998 09:13:17 -0800 (PST)
From: doug hauff <slmachco@fix.net>
To: qrp-1@Lehigh.EDU
Subject: [1947] Holy Cow, Batman! The Enclosures Are Gone!!
Message-ID: <199801261713.JAA04234@fletch.fix.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At long last the remaining 38 Special Custom Enclosures are in shopping bags on the bench, to be hauled on the gas tank of my FXRS Sport to the Post Office TODAY! A handful of the Tick front panel variants will be kitted tonite, in the mail tomorrow, completing every order I have received to date.

Again I apologize for the outrageous delay, again citing Machining Center Blues. I ended up rebuilding the entire Y-axis positioning section of the mother board myself, a replacement board(\$4,000.00!!) not readily obtainable. (5 chips, \$600.00!!!!!!)...Second Machining Center in the works, this will not recur! Heatsinks are next, but they will have to wait a week for completion of current NorCal K8FF Paddle order.

Thanks, everybody! Enjoy the Enclosures, and the Rainbow Enclosure to come!!

72 Doug Hauff KE6RIE

PS. Rainbow Enclosure to be revealed at February NorCal meeting next week!!

Date: Mon, 26 Jan 1998 12:15:11 EST
From: K5BDZ@aol.com
To: K5BDZ@aol.com, qrp-1@Lehigh.EDU
Subject: [1948] WOW! simple AF filter works!
Message-ID: <d247e140.34ccc4a1@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Don't seldom review equipment but this one is a cutie! The MIZUHO AP-M1 "audio processor". Actually it is a simple switchable bandpass audio filter / notch filter. It includes a four section active filter (all IC 741 types) with a LM386 audio amplifier into a lid-mounted built in 2 1/2" speaker. Runs on internal 9 volt battery or external 12 VDC. Measures only 1 1/2" high x 5 1/2" wide x 5" deep (including knobs). Front panel has 3 position toggle switch for "power off / Bandpass position / Notch position with LED's to indicate BPF and Notch positions. Two front panel controls: "Frequency" and "Bandwidth". 3.5 mm audio jacks for External Speaker and Receiver AF input.

Plastic case makes it very light for backpacking, etc.

1. On AF Bandpass, it allows you to vary your bandwidth (including wide SSB bandwidths narrowing down to about 80 Hz CW), as well as to peak your preferred CW tone frequency, from way low to way high.
2. On notch, it allows you to vary the frequency to peak on the offending signal, then vary the depth of the notch.

Works like a charm in both positions!!! I never cease to be amazed at what simple designs with variable controls can do! My opinion? Beats SCAF easily and is so simple it could easily become a new NORCAL or Other Kit Maker winner!!!

I purchased two of these a few weeks ago. One had a couple of loose wires (now fixed) and both work identically. After a few tests, I will sell one (and only one) but will keep the other to go with my permanent QRP portable setup.

Friends, keep your eyes open for this one. It's a sleeper!!! Would like to see someone duplicate it for the market as it is simple and as Mizuho has not made it for a few years.
Feedback?

Bill, K5BDZ

Date: Mon, 26 Jan 1998 09:33:02 -0800
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
To: <mail4gary@worldnet.att.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [1949] Re: Oh No! Touch-Lamps! HELP!
Message-ID: <01bd2a80\$7425d9a0\$309f5ecf@double_trouble.reliablemeters.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

How do I quiet these things down??
>72/73 de W2UX

First, shower praise upon your spouse for her artistic eye and sense of style. Then wax poetic about how beautiful they are. Later, casually mention in passing how you heard somewhere about someone getting injured by touching one of these lamps, but that they are just too beautiful to part

with, and it would certainly be worth it anyway. Then slip down to the local hardware store ("Just need to get some screws to put up that curtain rod you wanted me to hang last year!") and buy a 10 amp screw base fuse. Replace the light bulb in the lamp with the fuse (careful! Don't touch the base!).

(Insert legal disclaimer, here)

For extra credit, keep a fire extinguisher handy, and dramatically put out the "fire". Also, be sure to point out how all the glass in the bulb melted down into the base.

One fuse should take care of both lamps.

In case of actual injury, please be reminded that this was written in jest.

Date: Sun, 25 Jan 98 17:26:46 PST
From: gregoire@endor.com
To: Low power amateur radio discussion <qrp-1@Lehigh.EDU>
Subject: [1950] 80 m \just before super bowl
Message-ID: <Chameleon.980125173353.GREGOIRE@Gregoire.endor.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hello Gang,

I must have been the only ham on the air just before kick off of super bowl XXXII.

I was listening to 80 meters, testing my CQ auto loop on the memory keyer.

So I hit the VOX and let-er rip.

A guy in Spain answers me, on 80, WOW.

Antenna was a dipole. He was 579 between the qsb and static.

BTW.

My favorite commercial was the "Tobasco Bubba" on the porch.

de AA1IK, Time the accursed enemy of man,
 cursed youth for going to slow
Ernie Gregoire and by the old for going to fast.

R.R. 1, Box 221,
South Rd. Fists # 2644, ARCI # 9500
Canaan, NH. 03741 QRP-L # 95, Fly fisher & tier,
 Promise Keeper.

E-mail address: gregoire@endor.com

packet address: AA1IK@WA1WOK.FN43FE.NH.USA.NA

01/25/98 17:26:46

Date: Mon, 26 Jan 1998 12:42:51 -0500
From: "Dave Rowe" <elim@ime.net>
To: <wmcfadde@oucsace.cs.ohiou.edu>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [1951] Re: CQ WW 160 CW contest
Message-ID: <001801bd2a81\$d42feba0\$21c65ad1@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi all ,
Just to let you know had a blast working the 160m contest, because of work
and family obligation could only work 5.5 hrs total.. but the band was very
in very good shape ..
ran 3 watts to an inverted-L 109 Qso 32 states
great time..
73 dave kc1di qrp-parci 3843 Neqrp 410
>

Date: Mon, 26 Jan 1998 12:14 -0800 (PST)

From: eakwik@mail.hac.com
To: qrp-1@Lehigh.EDU
Subject: [1952] help getting started-revisited/Elmer
Message-ID: <0ENE00D05JND88@mail.hac.com>
MIME-version: 1.0
Content-type: TEXT/PLAIN; CHARSET=ISO-8859-1

Hi,
Remember me? I ask a bunch of questions about getting back into
amateur radio and using a HW-7 to do it. I would like to thank
everyone who took the time to respond:

K5KVH
K2VCO
WA2HOQ
N4ELM
NZ8J
AE4IC
AB7ST
WJ2V
AB7HI
AL7FS
W8SFF
KU7Y
K1MG
WB9IOG
KE0AZ

As a result of your input, some more listening on the bands, and
approvals by the xly, I have the following plan:

1 Get my novice class. Keep the HW-7 and try it. Using batteries
makes it more usable. Backup plan is to use it for TX and the SX130
receiver to work around the HW-7 receive limitations. Another backup
would be to get a W7ZOI Universal QRP transmitter from Dan's Small
Parts. I have a copy of Solid State Design which describes the
circuit in detail. For about \$25 I can have 1.5 watts and a couple of
crystals. The idea is to get some RF into an antenna and spend time
pruning and tuning it without spending a lot. If I make some contacts
OK, but I am not going to depend on this initial set up for any
reliable use.

2 My 35 to 40 foot high dipole needs to wait until the wx gets
better. But I can get a 40 meter inverted vee up to 20 feet now. So
I will get some coax and a tuner with SWR measuring capability and see
how it works.

3. While I am doing the above, I continue to study and save some
money. Hope to get my general class by summer and reward myself with

a transceiver kit. If my on the air success rate is poor, it will just motivate me to study harder for the general.

4 All of the above gets tossed because the qrp-l develops a really cool elmer project.

Date: Mon, 26 Jan 1998 10:45:31 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: phelbert@rica.net
Cc: qrp-l@Lehigh.EDU
Subject: [1953] Re: FYBO
Message-ID: <199801261745.KAA27303@usr08.primenet.com>

Howdy Paul (and Folks),

> Would someone please send me the URL for info on the FYBO Winter Field Day?

<www.dancris.com/~ki7mn> - ScQRPion Bob (KI7MN) has the rules, FYBO FAQ, and blank logsheet/summary sheet forms there.

Those non-Web surfing critters can send me email here at Rodent Central (vole@primenet.com) for more info.

Feb. 7th is the day! 12 full hours o' FYBO Fun! Alert the authorities! :-)

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"It's hard to be unhappy when your feet are warm."
- Dave Rose, Fellow Snowcamper

Date: Mon, 26 Jan 1998 09:38:18 -0800
From: dave_epps@juno.com
To: qrp-l@Lehigh.EDU
Subject: [1954] new vfo
Message-ID: <19980126.095046.6678.2.dave_epps@juno.com>

Is anyone familiar with the "new" qrp vfo fm menu plus inc. advertised in

the feb 73 mag page 5?
dave ab5pc

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 26 Jan 1998 12:52:59 -0500
From: ckrelic@usaor.net
To: qrp-l@Lehigh.EDU
Subject: [1955] FS:QRP Tuner
Message-ID: <34CCCD7A.53DC43D1@usaor.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello all:

QRP tuner MFJ 971 as new condition
with box and manual shipped 48 \$50

73/72 Curt/K3ivb

Date: Mon, 26 Jan 1998 10:54:20 -0700
From: tom whalen <whalen@swcp.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [1956] NW8020
Message-ID: <34CCCDCC.7573@swcp.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Qrpers!

Just finished building the receiver section of my Emtech 20 meter rig,
and no smoke!!!! Hooked up a short wire for an antenna and heard bunch
of signals! So far, I have really enjoyed building this kit and can't
wait to get it on the air. Maybe will have it finished by the end of
this week. 72, and melt solder when you can! Tom WB5QYT " Have spud will

travel!"

Date: Mon, 26 Jan 1998 12:36:00 -0500
From: w4bws@juno.com (Donald E Sanders)
To: mail4gary@worldnet.att.net
Cc: qrp-1@Lehigh.EDU
Subject: [1957] Re: Oh No! Touch-Lamps! HELP!
Message-ID: <19980126.125342.3638.0.w4bws@juno.com>

Gary, clear fingernail polish on the plug prongs works wonders(HEE,HEE)
Don W4BWS
dtd0n1@juno.com

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 26 Jan 1998 10:59:01 -0700
From: Andy Fox <foxes@theriver.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1958] Virtual Elmer
Message-ID: <34CCCEE5.4E4963F7@theriver.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello,

Chuck suggested (and lots of people agreed) the NE40-40/SW-40 as the rig to build. Here's the URL for the Small Wonders Labs SW-X0 kit:

<http://www.fix.net/~jparker/sml/sw40.htm>

Board and parts U.S./Can \$55, Overseas \$60
Enclosure U.S./Can \$35, Overseas \$40

So, worst case you're out \$100 for a complete, ready to use radio in a nice box, including shipping. Seems reasonable to me. There are lots of ways to reduce that cost, too.

Count me in!

--

Andy Fox, KK7HV
mailto:foxes@theriver.com
http://personal.riverusers.com/~foxes/

Date: Mon, 26 Jan 1998 10:00:45 -0800 (PST)
From: doug hauff <slmachco@fix.net>
To: qrp-l@Lehigh.EDU
Subject: [1959] NorCal/K8FF Paddle Tuning
Message-ID: <199801261800.KAA17014@fletch.fix.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Just read a post concerning play in the paddle shaft bearing, doesn't make a lot of sense to me...the clearance between the 6-32 screw and the bearing is irrelevant - the screw, when tightened, clamps the bearing to the base. No matter what the hole-screw clearance is, the screw pulls the bearing down to the base...the force is all downward along the axis of the screw, when tightened, the bearing is held immobile to the base...how could the hole clearance affect the paddle action? ...there is no action between the screw and bearing, both are solidly clamped...I can only surmise that the screw on the assembly under discussion was not tight originally.

to reiterate: The bearing screw clamps the bearing to the base solidly and the paddle shaft rotates about the IMMOBILE bearing.

I have noticed on my own prototype set that the paddle action CAN be slightly affected by the screw tension - I can tighten the action slightly by really cranking down on the screw, I suspect the brass washer is distorting slightly, tightening things up a bit.

72 Doug KE6RIE

Date: Mon, 26 Jan 1998 12:00 CST
From: FAITHD@dnr.state.wi.us (Don C. Faith III, AM/7, \ (608\) 267-3135)
To: qrp-l@Lehigh.EDU
Subject: [1960] Custom Crystals

Message-ID: <009C0DDA8063DF25.0A75@dnr.state.wi.us>

I am considering a project where I will need a custom crystal or two.
Can anyone provide me with a suggestion or contact for a manufacturer
of crystals whom they know will do v. small quantities?

I recall that there were postings for "Jan crystals" (?)
on the list but it was a while ago and they may not have a web page.
Looking for HC49 type housings, 47.00 Mhz and possibly 59.00 Mhz.

Tnx in advance for any assistance.

73 (es 72) de N9WR, Don C. Faith III

Date: Mon, 26 Jan 1998 13:21:34 -0500
From: Bill Nicolson <n2wf@erols.com>
To: "njqrp@njqrp.org" <njqrp@njqrp.org>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [1961] Crystals for Pixie
Message-ID: <34CCD42D.7B4E670@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi all! Happy day after the Super Bowl 32

Got my pixie together yesterday (Sunday) and its working FB!! I want to order
some more Crystals for it from Mouser.

Looking at the specifications in the catalog they offer 2 different types of
crystals: a series and a parallel?? which one do I order

72/73 de Bill N2WF

72 de Bill Nicolson -- N2WF
QTH: 38 Tanglewood Lane - Colonia, NJ 07067-3036
Clubs: NJQRP#68; FISTS#2016; NorCal#2098; QRP-L#955; ARS#332
E-Mail: n2wf@erols.com
Stuff: OHR-400; NC40a; 38S; SW-40; NorCal Paddles; LDG QRP Tuner
OHR WM-2; OHR SCAF; Island Keyer

Date: Mon, 26 Jan 1998 10:17:55 -0800
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: qrp-l@Lehigh.EDU
Cc: adams@sgi.com
Subject: [1962] Elmer Thread
Message-ID: <3.0.1.32.19980126101755.00746f38@dpol.k12.ca.us>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have been reading with fascination the current "Elmer" thread. People have said that there is a need for Elmering on the list, and there isn't enough simple material out there. I disagree, I think that Doug DeMaw's books, the Joy of QRP, back issues of QST, Sprat, QQ, QRPP, all have a wealth of information in them and it is there if you are willing to dig it out. But no, the members of this list want someone to take them by the hand and lead them through the wasteland. Give them an A for having the desire, that is 90% of the battle. But I give them a C- for their ability to help themselves. What we have is a problem, and we need to solve it. Here is my suggestion.

1. Contact Dave Benson and see if he can supply the group with kits for the 40-40 in quantity. I say don't ask him for a group buy. He is in business and we need him to stay in business. Let's not be cheap about this, as we are buying lab supplies for an educational course. If Dave can supply the kits, then we need to set a date for the class to begin, say March 1, (providing Dave can get the kits out).
2. We need an instructor to be in charge. He doesn't have to teach the whole class, just be in charge. Qualifications: Knowledge of the subject, ability to communicate, organizational skills, and able to finish the job.
3. Everyone on the list needs to get a copy of Circad, so that schematics can be exchanged that are easy to read, none of this ascii stuff. We need someone to place the Circad files on a website so that they can be downloaded (I am talking about the files that are developed as we go along, not the Circad demo files).
4. The class would consist of going through the schematic part by part, and explaining the purpose of every part. We would build the radio as we go, and the course would be on QRP-L, with someone putting each day's lesson on a web page, so that we will have it later for the newbies. As we go through the schematic, the instructor might have us build a simple oscillator and then try different resistors to see what happens when we change the bias, etc. This is why I say that we need to have Circad available.
5. We need a volunteer to put the 40-40 schematic in Circad. Any out there?

We have had numerous threads on this list that have died because of lack of action. Here is a plan. Who will step up to the plate? The most important question now is how many people are interested in doing this. I don't have time to take this on, but is there someone who is willing to take private email and keep track of the number on this list who are willing to order the kit from Dave and participate? If so, make yourself known. Post to the list that you will take a list of those who will buy a kit and participate, and be sure to give a deadline, say midnight Wednesday, so those on the digest have a chance to email you. Then report back to the list the number. Maybe there are 100, maybe 5 who knows? Lets get started. When we have a number, then we can ask Dave about delivery times, etc. 72, Doug, KI6DS

Date: Mon, 26 Jan 1998 13:29:16
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@Lehigh.EDU
Subject: [1963] Re: Toko IF cans..ID
Message-ID: <3.0.3.16.19980126132916.2eaf0672@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I think Mike ment to send this to the list, not just me. Points out a few details I neglected to mension....

>Many Toko IF coils have the caps built into them - they are usually
>mounted in the bottom of the plastic base. Check for this cap.
>I usually find a 100pf cap in 10.7 IF cans.
>
>Remember that the input capacitance of the scope probe is in
>parallel with the parallel circuit. This lowers the resonant frequency,
>especially in 10.7 Mhz IF cans. For example, my Tek scpoe probe
>has an input capacitance of 14pf. If I place a 100pf cap across
>the coil, the total capacitance is 114pf.
>
>I place a 1K ohm resistor between the signal generator and
>resonant circuit it reduce loading effects.
>
>Have fun.
>
>Mike St. Angelo
>email: mstangelo@worldnet.att.net

Date: Mon, 26 Jan 1998 10:37:02 -0800
From: Laura Halliday <ve7ldh@direct.ca>
To: qrp-1@Lehigh.EDU
Subject: [1964] Re: Elmering project
Message-ID: <34CCD7CE.1FCCBB22@direct.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

A few points:

If people want 100-level EE knowledge, why not consult a local college or university and take the relevant courses? See what textbooks they use and buy and use your own copies if you want.

At one time, it was agreed that the way to learn something new was to hit the books and study. This no longer appears to be the preferred option. Why? If you work at it conscientiously, even for a little while each day, it will sink in. This should sound familiar, since it's also the party line on Morse Code...

...laura, not wishing to rain on anybody's parade, but feeling constrained by reality, and feeling rejected by pronoun usage

Date: Mon, 26 Jan 1998 13:42:02 -0500
From: Michael Maiorana <mikemo@ibm.net>
To: ki6ds@dpol.k12.ca.us
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1965] Re: Elmer Thread
Message-ID: <34CCD8FA.B55@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hendricks, Doug wrote:

- > take private email and keep track of the number on this list who are
- > willing to order the kit from Dave and participate? If so, make yourself
- > known. Post to the list that you will take a list of those who will buy a
- > kit and participate, and be sure to give a deadline, say midnight
- > Wednesday, so those on the digest have a chance to email you. Then report
- > back to the list the number. Maybe there are 100, maybe 5 who knows? Lets

> get started. When we have a number, then we can ask Dave about delivery
> times, etc. 72, Doug, KI6DS

OK, that I can do.

Please e-mail me directly if you are interested in participating in the
"List Elmer" class. You need to have a PC capable of running Circad. You
need some money to buy the kit (\$55 or \$90 with the enclosure and
controls). You need soldering equipment. You may also need a few other
things (volt meter, a calibrated receiver) but I'm not sure yet. You
need to be able to browse the internet, as the info will be kept there.

Email me directly at <mailto:mikemo@ibm.net>

All requests will be processed on Thursday morning, 1/29/98.

When I get a total I will find out what the kit availability is in this
quantity. I will let you all know how many requests we get. There is at
least one (me).

72 de kf4trd
Mike Maiorana

Date: Sun, 25 Jan 1998 23:26:10 -0000
From: "Frank Lee" <frank@g3ycc.prestel.co.uk>
To: <qrp-1@Lehigh.EDU>
Subject: [1966] G3YCC change of email info
Message-ID: <E0xwtXv-0003HA-00.1998-01-26-18-46-12@svr-a-02.core.theplanet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Please note my email address is now g3ycc@g3ycc.prestel.co.uk
My web site will also be moving, partly because the present site is full
(5MB) and the new server offers unlimited space, so watch out for a brand
new LARGER site - the previous one was voted 3rd in the UK's top Amateur
Radio sites (RSGB 6th...)
Stay tooned...

Frank G3YCC G QRP 042

Date: Mon, 26 Jan 1998 14:01:09 -0500
From: Ed Tanton <n4xy@bellsouth.net>
To: FAITHD@dnr.state.wi.us
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Date: Mon, 26 Jan 1998 19:10:06 +0000
From: Ed Loranger <we6w@qsl.net>
To: mail4gary@worldnet.att.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1969] Re: Oh No! Touch-Lamps! HELP!
Message-ID: <34CCDF8E.4AB9@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Here's my post to qrp-1 on August 19th, 1997.
It still works FB!!!
-Ed

I fixed the Touch Lamp Mom gave us for Christmas!

----- Here's my old post and Fix

As usual it took 8 months and 10 minutes to fix.

Two parts: 1/4 watt, 1k Ohm resistor and 2.5 mH 1/2 watt size molded coil. Connected in-line with the touch wire.

Background: The touch lamp is a nice luxury. Just touch your hand, arm, etc to any of the exterior metal and it cycles through off-low-med-hi etc.

But: Also cycles when static is high walking across the carpet.

Turning off a light switch.

I send 2 or more watts from the rig.

My son works the CB.

You'll find it on when you get home.

So the darn thing is an oscillator which changes frequency when you touch it. The circuit does the rest. By adding the resistor/inductor pair, its sensitivity is reduced and the problem disappears.

Works FB. And the xyl can read while I slink out to the garage for an 'anonymous' QSO.

FYI/Ed Loranger

--

Recipient of coveted Samuel F. B. Morse Award, NTTC Pensacola, FL 1977.
72/73 de we6w qrp es CW ONLY; Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (From Non-Ham to Extra in one Day.)

Date: Mon, 26 Jan 1998 19:12:58 +0000
From: Ed Loranger <we6w@qsl.net>
To: mail4gary@worldnet.att.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [1970] Re: Oh No! Touch-Lamps! HELP!
Message-ID: <34CCE03A.5CC8@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

One more thing: (Most important!), you won't hear the osc. anymore on your radio.

And don't open up the module inside the lamp base, you are wasting your time there, and adding more work to glue the module back together.

Just Choke off the Sense wire with the Resistor and 2.5 MilliHenry choke. You'll be fine.

-Ed

--

Recipient of coveted Samuel F. B. Morse Award, NTTC Pensacola, FL 1977.
72/73 de we6w qrp es CW ONLY; Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (From Non-Ham to Extra in one Day.)

Date: Mon, 26 Jan 1998 14:15:46 -0500
From: Michael Maiorana <mikemo@ibm.net>
To: plquick@facstaff.wisc.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [1971] Re: Need CIRCAD info again
Message-ID: <34CCE0E2.236C@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Paulette Quick, WB9VHF wrote:

>

> I am interested in the Elmering project but I need a recap on available
> versions of CIRCAD, what platforms they run on, where to purchase or
> download them and cost. Please post the information to the list.

I just checked. The web site is <http://www.holophase.com>

There is only a dos version. The windows 95 version is not complete yet. The demo version (which is crippled) is free. I think the demo version will work for what we need. List price on the full software is \$995. Someone on the list mentioned that there was a discount for Ham's, something like \$300???? Does anyone remember?

The minimum requirements are DOS, 286 processor, 1 meg ram, 1 meg Hard drive space. They said that if you buy one version, you will get the other for free (still only one license though).

Hope this helps.

72 de kf4trd

Mike Maiorana

Date: Mon, 26 Jan 1998 12:19:04 -0700 (MST)

From: Bob Hightower <ki7mn@dancris.com>

To: qrp-1@Lehigh.EDU

Subject: [1972] Need CIRCAD info again

Message-ID: <199801261919.MAA04264@user2.dancris.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

>Return-Path: <owner-qrp-1@Lehigh.EDU>

>Date: Mon, 26 Jan 1998 13:04:39 +0000

>Reply-To: plquick@facstaff.wisc.edu

>Sender: owner-qrp-1@Lehigh.EDU

>From: "Paulette Quick, WB9VHF" <plquick@facstaff.wisc.edu>

>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

>Subject: Need CIRCAD info again

>X-Listprocessor-Version: 8.1 beta -- ListProcessor(tm) by CREN

>

>I am interested in the Elmering project but I need a recap on available
>versions of CIRCAD, what platforms they run on, where to purchase or
>download them and cost. Please post the information to the list.

>

>Thanks,

>

>Paulette Quick, WB9VHF
>plquick@facstaff.wisc.edu
>and five birds who have not yet learned CW
>
>
>
>

73,
Bob KI7MN (ki7mn@dancris.com) Chandler, AZ
Grid DM43bi Lat 33.334500 Long -111.87260
NorCal #1221 ARCI #8918 Qrp-1 #271 CQC #274 AK QRP #30 ARRL
<http://www.dancris.com/~ki7mn>
WIMPS: QSO's=19 30=19 17=0 12=0 States=15/0/0 DX 0/0/0 QSL's=6

Date: Mon, 26 Jan 1998 14:22:25 -0500 (EST)
From: BensonDJ@aol.com
To: QRP-L@Lehigh.EDU
Cc: ki6ds@dpol.k12.ca.us
Subject: [1973] Elmering and 40-40 stuff
Message-ID: <980126142225_1321982718@mrin52>

Hi gang-

The current 'Elmer' /project thread has indeed been picking up momentum, and I've avoided posting publicly so far. Doug Hendricks just wrote-

>>Date: Jan 26, 1998 2:34 PM EDT
>>From: ki6ds@dpol.k12.ca.us
>>X-From: ki6ds@dpol.k12.ca.us (Hendricks, Doug

>>I have been reading with fascination the current "Elmer" thread. People
>>have said that there is a need for Elmering on the list, and there isn't
>>enough simple material out there. ...

>>1. Contact Dave Benson and see if he can supply the group with kits for
the 40-40 in quantity. I say don't ask him for a group buy. He is in
business and we need him to stay in business. Let's not be cheap about
this, as we are buying lab supplies for an educational course. If Dave can
supply the kits, then we need to set a date for the class to begin, say
March 1, (providing Dave can get the kits out).<<

Consider me contacted!- nothing beats a proposal made in view of the whole
world, and he wasn't the first. Suffice it to say that I'm in discussing

this with folks right now . I should be able to provide a more comprehensive (yes, and less cryptic!) posting on this subject with the next 1 to 2 days.

In any event, I'm working this behind the scenes, so thanks for your patience.

73, Dave- NN1G

Date: Mon, 26 Jan 1998 12:20:23 -0700
From: "Ron Smith" <resmith@primenet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [1974] Re: Elmer Thread
Message-ID: <017f01bd2a8f\$d7b81fa0\$5822a5ce@primenet.com.primenet.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Mike...

>things (volt meter, a calibrated receiver) but I'm not sure yet. You
>need to be able to browse the internet, as the info will be kept there.

What we have done with this requirement is stop Juno users and those with limited Internet access from participating.

Thoughts?

Ron Smith

Amateur Radio Callsign: KD7VD
Boise, Idaho
E-mail: resmith@primenet.com
QRP-L #1291...ARCI #9580

Date: Mon, 26 Jan 1998 11:29:47 -0800 (PST)
From: doug hauff <slmachco@fix.net>
To: qrp-l@Lehigh.EDU

Subject: [1975] Enclosure shipping update/RAINBOW ENCLOSURE
Message-ID: <199801261929.LAA08826@fletch.fix.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Our server was down this weekend, my earlier post is a couple days old, with the exception of a few international orders going out today ALL ARE SHIPPED!(How many guys can say their radio has been on a Harley?).

Rainbow Enclosure: Prototype nearing completion, will be on display at Sunday NorCal meeting, full description/ordering information will be posted next week!

Coming soon: Ultimate Straight Key (with orgasmic action), more Enclosures, Custom Front Panels...and a NEW machining center! (this will assure that my present VMC will run flawlessly for years)

72 Doug KE6RIE

Date: Mon, 26 Jan 1998 19:48:34 +0000
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1976] Bazooka Ant. Built. (short reading)
Message-ID: <34CCE892.3A33@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well, couldn't spew all that hot air last week, then NOT build the thing!

My Bazooka Antenna is built, Done, and works great!

I got started Bldg. the Ant. Saturday afternoon. Gaging the XYL, I wasn't sure if I could get in the hours needed without finding an axe in my rig in the morning!

So I took frequent breaks and waited for everyone to fall asleep. Continuing the job until 1 AM Sun. Morning.

Decided to finish the antenna Sunday, AND get it into the air. That decision cost me half of the Superbowl game viewing....

I've been getting excellent reports. I feel it is at

least AS good as the dipole it replaced. And that ant.
has caught 25 foxes already G+/T+ combined.

It was a lot of work for my limited equipment. (SWR Only).

I'll post the full story later today.

72/
Ed

--
Recipient of coveted Samuel F. B. Morse Award, NTTC Pensacola, FL 1977.
72/73 de we6w qrp es CW ONLY; Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (From Non-Ham to Extra in one Day.)

Date: Mon, 26 Jan 1998 13:58:22 -0600
From: Tim Ahrens <tahrens@inetport.com>
To: n4xy@bellsouth.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [1977] Re: SG-2020 TODAY?
Message-ID: <34CCEADE.22EAC8C7@inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Probably not TODAY!

Spoke with someone at SGC... next in line behind the lady
who answers the phone. She said it'll probably be next week
before the 1st one ships.

They evidently have more than 200 back ordered, and they said
that all of the units ordered will ship within 60 days. Sooo,
if you ordered in December, you'll probably have to wait 30 to
45 days. (I extrapolated these dates... she said that the
1st orders were taken in August).

Not knowing how they are working their factory... I would figure
that they will start on a slow ramp, just to get some of the
production bugs worked out (not functional bugs, but how they
do the actual assembly). It's a considerably different beast
than putting together a kit of parts and sending out in zip bags.

Guess we'll have to hang on a bit more... they haven't charged
my Visa card, so other than my salivation problem, I can't

complain!

cuall

Tim W5FN

hey SGC - make me a liar...(please)... ship all of em next week!!

Date: Mon, 26 Jan 1998 15:09:23 -0500
From: Michael Tracy <mtracy@arrl.org>
To: qrp-l@Lehigh.EDU
Subject: [1978] Re: Elmer Thread
Message-ID: <34CCED73.81782C5D@arrl.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ron Smith wrote:

>What we have done with this requirement is stop Juno users and those with limited Internet access from participating.

I hereby volunteer to act as a go-between for the folks without web access who want to get involved in this project (note: I am not volunteering to be the main Elmer, however). I can provide folks with UUencoded materials, but will also send floppies at my personal expense as necessary.

73, Michael Tracy, KC1SX

Date: Mon, 26 Jan 1998 14:37:06 -0600
From: "C.D. Rakes" <cdrakes@ipa.net>
To: <qrp-l@Lehigh.EDU>
Subject: [1979] SG2020
Message-ID: <199801262030.0AA15538@thunder.ipa.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

I call SGC back in November wanting to purchase a SG 2020, and the lady told me I would have to contact one of their dealers. Is this their

normal way of doing business? Been reading that some of you have had the rig on order from SGC, or that's the way I read it. What gives?

Slightly confused in Arkansas. Thanks KI5AZ

Date: Mon, 26 Jan 98 10:39:14 HST
From: mike@krypton.nmr.Hawaii.Edu (Mike W. Burger)
To: qrp-l@Lehigh.EDU
Subject: [1980] NorCal 40a arrives
Message-ID: <9801262039.AA25246@krypton.nmr.Hawaii.Edu>

I found the Priority Mail box from Wilderness in my PO Box this morning. Inside was the NorCal40a, the keyer and the special panel just like I ordered about 10 days ago. Good service. Little time to examine it properly, but fitting the case parts together it is certainly compact and cute. Documentation certainly passes the "heft" test, plenty of pages.

Any special tips on building this box would be appreciated. Time to see if any of our 10 turn pots are the right size.

AH7R - Mike Burger, University of Hawaii at Manoa, Dept. of Chemistry
HI-QRP #28 - QRP-L #1053 - FISTS #3225 - BL11ch - Honolulu County

Date: Mon, 26 Jan 1998 20:53:30 +0000
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [1981] Bazooka Ant. Built (Full Story)
Message-ID: <34CCF7CA.124C@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

History:

The bazooka antenna is for single Band use. Published documentation shows a 14% 3:1 bandwidth over a dipole, and 99% to 100% efficiency at the design frequency. It is about 92 % efficient as you approach the bandwidth edges.

The antenna is electrically a 1/2 wavelength long, just like a typical dipole. The primary difference is the antenna is constructed with

a 1/2 electrical wl of coax, shield opened at the center where it is driven, and the shield is extended off the ends with either single wires or a pair of wires extending to the end insulators. The ends of coax furthest from the center are shorted to the center conductor thereby providing an impedance transformation at frequencies OTHER than the designed center frequency.

What I did:

Estimated the coax to be 23'±1" but only had some 44 feet of good 50 ohm, 100% double braid coax at hand. So I settled for 21'-6 inches on each side and extended the braid and center wire with 14 AWG non-stranded wire. At each end I shorted the two wires and also added 11 feet of wire as well.

Using my OHR-100 (Important it has a nice 50 Ohm output impedance, I connected a short section of 50 Ohm coax from the rig to the SWR Meter, then another coax, with choke balun from the swr meter to the antenna. I kept the driving coax to 3 feet. A resonant dipole should read approx 70 to 75 ohms so I was looking for a SWR reading of 1.5:1 at resonance. That was my goal.

With center suspended by rope to the ceiling of my garage, I draped the antenna legs where I could, away from metal, and out the door, eventually hanging it along the top of the fence in both directions.

I was surprised to learn that my wire extensions, (16 AWG Heater Cord), had a velocity factor of 85.36 %. I was in disbelief when I got the ends down to 6-3/4 feet! So to verify the antenna AND MY MEASURING TECHNIQUE, I decided to build another dipole, with the 16 AWG heater cord in its entirety. After getting the new dipole built, I calculated the Velocity factor, realizing my Bazooka was truly too long and I was going in the right direction after all... What a surprise!

So I continued trimming the Bazooka antenna, eventually getting to 2:1 vswr. That was the best I could get. The QRG was moving up from 7000 KHz and I centered the 2:1 vswr length on 7040 KHz.

I accepted this discrepancy as caused by inexact phasing length of the coax portion. I had previously separated the center of the coax, and since it was too short to begin with, didn't cut it to proper length. Now if I had one of those Antenna Analyzers =8^), I'd be dangerous, (And building better/more antennas).

NOTE: If you want the right Impedance, be absolutely careful and measure the 1/2 wavelength of coax before construction. If you can.

I was truly amazed, during the pruning operation I heard all of my QRP circle of friends. But the real test would be transmitting. That is where the antenna efficiency really comes into play.

The Super Bowl football game was just beginning. I mulled over whether I still fit thru the bathroom window to reach the roof :)

Yup. Darn. No excuse. OK. I brought the ant., soldering Iron, Extension cord, solder, Knife, diag. cutters, up onto the roof. Dropped the old ant. cut/re-attached feedline. Raised up Bazooka.

I tried to get the Tree-anchored end of my old dipole down, and the darn rope broke! Couldn't find the slingshot, or heavy weight for the fishing pole, so I climbed the tree. I got the end anchored in just a few minutes. Wasn't too bad after all to climb the tree.

Done. I watched the last 2 quarters of the football game.

Afterward I had 4 qso's on the bazooka antenna. Using qrp stations as a better reference, I quickly realized I was giving 569's and receiving 579's. Shoot! The bazooka was really pumping out the signal.

I'm happy!

Comparison to my old dipole:

My old dipole was also constructed with the 16 AWG heater wire and may have been a touch too long. It was not as carefully constructed as the bazooka antenna. It was very close though. The feedline hasn't changed except for the 2 inches lost when cutting the old antenna off. Height is about 2 feet lower for the Bazooka, and between 35 and 40 feet up. Orientation remains identical. The new antenna is stretched a little tighter though.

I will continue to monitor and compare sent/received RST reports.

Conclusion:

This is a neat antenna and I can tune up the rig without a tuner on the entire 40 meter band. The test rig was my Drake TR-3, which has trouble loading when SWR > 2.5:1. The drake loaded well into the Bazooka. I am using my tuner anyway, and noticed the ant. tunes quite easily.

Final Suggestions:

It is a great single-band antenna, but bulkier than a dipole. High quality coax that I used is VERY Expensive. (Dual 100% braid!). If

you desire to run without a tuner, this antenna is a "Excellent" solution. Efficiency is near-dipole 99% at the design freq, dropping to about 92 % at band edges.

Those stuck with only ONE antenna and Multiband rigs will want something else for thier antenna.

I However, look forward to a dedicated 40 meter antenna, and the opportunity to build a different and efficient antenna for other bands as I need them.

Having Fun! (Just wish I had one of those ant. analyzers!)

72,
Ed Loranger, WE6W

--

Recipient of coveted Samuel F. B. Morse Award, NTTC Pensacola, FL 1977.
72/73 de we6w qrp es CW ONLY; Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (From Non-Ham to Extra in one Day.)

Date: Mon, 26 Jan 1998 12:03:00 -0900
From: "Larsen, Jim" <JLarsen@alascom.att.com>
To: "'qrp-l@lehigh.edu'" <qrp-l@Lehigh.EDU>
Subject: [1982] Massive disappointment de AL7FS
Message-ID: <D8F0A14EBB6CD11189D4006097E5893A0996BB@alascomexca.alascom.att.com>
MIME-Version: 1.0
Content-Type: text/plain

Well, I am checked in at the Holiday Inn near Sommerset, New Jersey. I hooked up the QRP+ and tuned the swr down to near 1:1 even though I knew it would not work well as there is no way to get an antenna outside of the room. Wrapped the wire and counterpoise around the room and it tuned up on 80-20 just fine.

I worked KB2HSH/QRP although the "other mode" operator took us out on 7.040.5....why do they have to do that?

But then I call K8NQQ. No response. Called again. No response. Looked at the MFJ tuner. No output! I guess a low SWR isn't all a rig looks for. I am 2 hours into a two week trip to NJ and GA and my rig is shot.

Sigh.

CQ 160 METER CONTEST -- 1998

All reports sent were 599 AZ, unless otherwise noted.

Equipment Description:

Ten Tec 546C at 5 watts output; 486-120 running CT 9.10;
27 meter top-loaded, shunt-fed tower with four isolated
quarter wave radials

Club Affiliation: Central Arizona DX Association

Great conditions on Friday night and Saturday morning! The new antenna played very well again. I think I'll keep it. Worked nearly all states QRP in one weekend. Missed only ME and ND, which I didn't hear at all. Worked 5 continents! Best ears nominations go to EA8BH and JA1YXP. Now I only need to work Europe to complete QRP 6 band WAC.

73

Gary

N7IR

gary.hembree@asu.edu

Date: Mon, 26 Jan 1998 14:39:48 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: JLarsen@alascam.att.com
Cc: qrp-1@Lehigh.EDU
Subject: [1984] Re: Massive disappointment de AL7FS
Message-ID: <199801262139.0AA25506@usr07.primenet.com>

Howdy Jim (and Folks),

Jim (AL7FS) wrote:

>
> I hooked up the QRP+ and tuned the swr down to near 1:1 even though I
> knew it would not work well as there is no way to get an antenna outside
> of the room.
> [...]
> But then I call K8NQQ. No response. Called again. No response.
> Looked at the MFJ tuner. No output! I guess a low SWR isn't all a rig
> looks for. I am 2 hours into a two week trip to NJ and GA and my rig is
> shot.

Don't give up! The same thing happened on my snowshoe trip last week. Zero output from my QRP+! Had been working fine the QSO just before too.

The culprit? My *&@\$%*&\$\$ coax stub that connects my QRP+ to the tuner had broken. One of the PL-259 beasts had torn free of its connection to the coax shield braid. To my QRP+ it must've looked like one ugly load! Seems the QRP+ will drop power out to nil when it sees something that nasty.

So check that connection to your tuner. Just a guess, but better than sitting on all that gear all week, only to find that a quick trip to Radio Shack would've gotten you back on the air!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"It's hard to be unhappy when your feet are warm."
- Dave Rose, Fellow Snowcamper

Date: Mon, 26 Jan 1998 17:11:16 -0500
From: cooper@gmpvt.com (Tom Cooper)
To: qrp-1@Lehigh.EDU
Subject: [1985] CQWW 160 QRP
Message-ID: <199801262211.RAA29617@web.gmpvt.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

With all my antennas laying on the ground under the snow, I was at a certain disadvantage this year, but I did manage 2 QSO's in 15 minutes of operating. 50' doesn't seem like much in the cosmic scheme of things but it sure makes a difference in antennas.

As soon as the temp goes above 0 F, I'll see if I can talk someone into helping me put at least one of them back up.

Tom W1EAT

Date: Mon, 26 Jan 1998 16:52:27 EST
From: EBikales@aol.com
To: qrp-1@Lehigh.EDU

Subject: [1986] QRP TTF
Message-ID: <ce92569e.34cd059d@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Greetings Fellow QRPers,

Regarding the coming QRP TTF in April, I will be performing in Las Vegas that week and am considering driving to just outside Needles, CA for the contest. This would put me on the state line of CA, NV and AZ. From the look of my map, I'd be on an Indian reservation (does that count as a 4th entity?)

I can cover 20M, but would like to team-up with someone who can cover 40M, and lives in a location relatively accessible to the site, like maybe Las Vegas. There'd be some details to work-out. Is anyone out there interested in entering with me? Please drop me an email.

72,

Eric Bikales AC6NT
EBikales@aol.com

Date: Mon, 26 Jan 1998 15:18:56 -0700 (MST)
From: Bob Hightower <ki7mn@dancris.com>
To: qrp-l@Lehigh.EDU
Subject: [1987] e-mail address
Message-ID: <199801262218.PAA28564@user2.dancris.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Somewhere in the distant past, there was a note about an e-mail address that would get you a text copy of a web page. I have lost that address, and would like to know if anyone has it and would forward it to me.

This might be the answer to the Juno folks, and others, who don't have web access but would like to see what the elmer questions are.

73,

Bob KI7MN (ki7mn@dancris.com) Chandler, AZ
NorCal #1221 ARCI #8918 Qrp-l #271 CQC #274 AK QRP #30 ARRL
<http://www.dancris.com/~ki7mn>

Date: Mon, 26 Jan 1998 22:34:04 +0000
From: Ed Loranger <we6w@qsl.net>

To: ki7mn@dancris.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [1988] Re: e-mail address
Message-ID: <34CD0F5C.644@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I saved this from awhile ago:

begin:

So, you want web pages by email..... try this...

Dave
PA3HBB / G0BZF

w3mail HELP-file

W3Gate - A Web Access by email

W3Gate (Version 2.0) fetches documents from the World Wide Web and sends them via email to the requestor. Send an email addressed to w3mail@gmd.de with requests for a Web-document referenced by an URL or for help in the message-body. W3Gate doesn't read The subject-field. The usage of a mail-command is:

```
get [-t | -u | -a [ -c columns]] [-img] [-ps] [-l] [-uu] [-z] [-s size]
URL
```

or

help

An URL consists of:

<scheme>:<scheme-specific-part>

The scheme is a protocol like http, ftp, wais, gopher and the <scheme-specific-part> consists of

//<user>:<password>@<host>:<port>/<url-path>

W3Gate fetches Web-pages as HTML source code, as plain text, as formatted plain text including all hyperlink references to other WWW documents, converted into postscript, as compressed file (Gnu zip), and as uuencoded file. You can also access password-protected files (see scheme-specific-part). You are able to get a Web-document and all inline-images as body-parts of a MIME-mail (Content-Type: multipart/mixed). Moreover links within a Hypertext-file are often interesting. Therefore W3Gate can fetch the HTML-file and all files that are referenced by hyperlinks from that file. Then you also receive a MIME-mail with Content-Type: multipart/mixed.

If the email contains more than one get-command W3Gate processes each command (max. 10) and sends the result of each command in a separate mail to you. Only one command per line is permitted. The first word in a command-line must be a 'get' or 'help'! The URL must start in the same line as the 'get' or 'help' begins. You can split large URLs over several lines using the '\'-character.

Files larger than 100 KB are splitted into 100K-parts. As result you get emails with a sequence number in the Subject-field. So you can reassemble the files in appending the body-parts of each email according to the sequence number. At maximum W3Gate will send 5 MB or at most 50 mails. While reassembling you have to pay attention on the first/last line of each partial-file (especially on binary files).

You can use following command-options:

- t : The Web-page is formatted to plain ASCII-text
- u : The Web-page is send to you as formatted plain text preserving all URLs occuring in anchor-tags within the HTML-Source.
The URLs are relative to the URL of the requested file.
- a : The same as -u but the URLs mentioned in links as absolute URLs.
- c columns :

This option can only be used in combination with the -t -u -a

options!

After columns characters a newline-character is inserted into the plain-text.

If 'columns' is less than 40 it is set to 40. If 'columns' is greater or equal 40 and smaller than 255 or equal 255 it is set to this value, otherwise it is set to 255.

- uu : The file you specified is uuencoded before it is mailed to you. Remember that uuencoded files are 35 % larger. If you want to fetch a 5 MB-file it will become ca. 6.75 MB so you will only get the first 5 MB!
- z : the file will be compressed with Gnu zip. It is recommended to use -uu in combination with -z as it produces 8-bit data that cannot be delivered properly.
- img : W3Gate fetches all inline-images in addition to the requested HTML-file. The result is a MIME-mail (multipart/mixed).
- l: The referenced document and all HTML-files referenced by hyperlinks from that document (max. 50) are fetched, too. W3Gate produces a multipart/mixed MIME-mail.
- s size: by this option you can fix the size of emails you receive in Kilobytes(!) to 1 K < size < 100 K.
- ps : The HTML-file/text-file is converted into postscript-format.

Some commands for example :

```
get -z -uu http://www.es.net/pub/rfcs/rfc1738.txt
get -t -c 132 http://www.es.net/html-stuff/rfcs.html
get -img http://www.gmd.de/
get -l -a http://www.gmd.de/
get gopher://gopher.es.net/77/.waisindex/rfcs?MIME
get -s 16 -uu ftp://ftp.gmd.de/misc/computersongs-1.4.Z
```

You can split Long URLs into several lines (max. 10 lines). Therefore you must append a backslash (\) to the partial URL to indicate that it is continued in the next line. Multiple breaks of URLs are also possible.

```
get http://www.altavista.digital.com/cgi-bin/query?pg=aq&what=\
web&fmt=.&q=Universitaet+and+Bonn+and+Informatik+and+Netzwerke&\
r=&d0=&d1=
```

If you append a signature to your mails propose a '-- ' (two minus and one blank) to it in a separate line to indicate that a signature follows.
Please configure your mail-reader not to propose any character-string before the message. W3Gate always checks the first word in the message-body. If the email contains incorrect commands W3Gate will send an error-mail with a hint to the wrong parts of the commands.
When W3Gate can't access a document (e.g. server-time-out, too much traffic, etc) you will get an error-message. In this case try again later.

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W3Gate is a voluntary service of GMD - German National Research Center for Information Technology. We reserve the right to stop this service at any time.

--
Recipient of coveted Samuel F. B. Morse Award, NTTC Pensacola, FL 1977.
72/73 de we6w qrp es CW ONLY; Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (From Non-Ham to Extra in one Day.)

Date: Mon, 26 Jan 1998 15:35:03 -0700
From: Niel Skousen <nskousen@scientech.com>
To: FAITHD@dnr.state.wi.us, qrp-l@Lehigh.EDU
Cc: thehammers@aol.com
Subject: [1989] Re: Custom Crystals
Message-ID: <3.0.3.32.19980126153503.007cc1b0@eaglerock.if.scientech.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I've had excellent service and responsiveness from MH Electronics at 800-643-9825. Talk to Brian, and be sure and let him know what your trying to do w/ the xtal. He knows more about how to make a rock sing and dance
.....

Brian Hammer
MH Electronics
9569 9th St.
Rancho Cucamonga, CA

800-643-9825

At 12:00 PM 1/26/98 CST, you wrote:

>

>I am considering a project where I will need a custom crystal or two.
>Can anyone provide me with a suggestion or contact for a manufacturer
>of crystals whom they know will do v. small quantities?

>

>I recall that there were postings for "Jan crystals" (?)
>on the list but it was a while ago and they may not have a web page.
>Looking for HC49 type housings, 47.00 Mhz and possibly 59.00 Mhz.

>

>Tnx in advance for any assistance.

>

>73 (es 72) de N9WR, Don C. Faith III

>

>

>

Niel Skousen: Sr.Eng, SCIENTECH.SPG/CFG/NUSI

208.525.3742, 524.9229 FAX 529.4721 Idaho Falls ID

nskousen@scientech.com WA7SSA QRP-L.119

Z-----DN33wm--- . . . -

Date: Mon, 26 Jan 1998 22:01:13 -0500

From: nilsbull@juno.com (Nils R Young)

To: qrp-l@Lehigh.EDU

Subject: [1990] Re: Oh No! Touch-Lamps! HELP!

Message-ID: <19980126.222012.3470.0.nilsbull@juno.com>

Gary,

We had one of those damn touch-me-Elmer lamps. I let the tom cat whizz on it a couple times and Cindy got tired of it smellin' funny (the lamp, not the cat . . . that's another story). So I took the lamp outside and I gave it the usual treatment:

1. Take the lamp out in the back yard where you keep the dried-out, nasty-butt lookin' Christmas trees after Christmas and shoot at it a couple times with a reasonable sized black powder revolver. CVA .36 caliber repros are good for this.
2. Chop on the lamp with an axe for about 2 minutes (added invectives helpfull here).
3. Take the shot-up, chopped-up lamp pieces and put them in a pile on top of some burnin' lumber. Set fire to the whole deal and watch the smoke

rise. Make sure that all the pieces are gettin' burned up good.

4. When the fire is out, take what's left, bury it in a hole and then shoot at the hole a couple times. (Add invective here. Stuff like "Die, you heathen monster!" or "My gawd, they killed Kenny! Those bastards!" works real good.)

5. Do the "hee-haw" dance like the fat kid does on "The Simpsons" and then go inside.

Proviso: Shooting at stuff may not be allowed in your locality, depending on firearm laws, the number of Kwiki Marts in the area, gang violins, stuff like that. Check with your local covenants and/or constabulary before step 1 or step 4.

That's what I did and the lamp's never bothered me since. The cat does miss it though.

73

Nils

Nils R. Bull Young

La Estancia de los Guajolotes Sonrientes :: The Grinnin' Turkey Ranch
WB8IJN &c :: The Tagalong Press :: email to: nilsbull@juno.com
<http://www.fortunecity.com/victorian/mehetebell/94>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 26 Jan 1998 16:18:50 -0700
From: Richard Kendrick <wa7twi@primenet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Cc: Bill Kelsey <kanga@bright.net>
Subject: [1991] SPRAT Reprints Received
Message-ID: <34CD19DA.28DAB4AD@primenet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

WOW! The SPRAT Reprints (all five volumes) arrived today. Way to go Bill, an outstanding job of packaging them. They came in nice three-ring binders with a title sheet in the outside jacket of the

binder. A quick glance at the copies revealed good quality reprints, even the first issues which were originally mimeographed. Thanks Bill!

Richard Kendrick N7NT
wa7twi@primenet.com

Date: Mon, 26 Jan 1998 23:35:13 -5
From: "Bill Kelsey - N8ET - Kanga US" <kanga@mail.bright.net>
To: QRP-L@Lehigh.EDU
Subject: [1992] SPRAT Reprints on the way
Message-ID: <199801262335.SAA20389@sparticus.bright.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

The final "load" went to the Post Office today. I have a couple more to get out that had trouble with addressing, etc - they will be on the way tomorrow. The Post Office folks all had a great laugh the past few days when then saw me coming in - it would take several trips in and out of the Post Office to the car to get them all inside.

The bad news is for the overseas orders - the postage was WAY higher than I estimated, so I had to ship them surface mail to avoid going bankrupt!. But they are on the way.

For those of you that missed the original offering, the price is now \$20 per volume, and shipping is \$5 for the first volume, and \$3 for each additional volume ordered at the same time. For overseas orders the shipping will be \$50 for all 5 volumes airmail, or \$25 for surface.

Thanks to all of you who ordered - hope you enjoy them as much as I have!

73 - Bill - N8ET
Kanga US
kanga@mail.bright.net
<http://www.bright.net/~kanga/>
419-423-4604

End of QRP-L Digest 982
